

Trade Name:

AlphaLISA SureFire® Ultra™ Detection Kit

# **Mouse STING Total Detection Kit**



#### **Article numbers:**

ALSU-TSTNG-B500 ALSU-TSTNG-B10K ALSU-TSTNG-B50K ALSU-TSTNG-B-HV ALSU-TSTNG-B-L

Components and Hazard Identification in ALSU assay kits.

Kit Components	Vol / 100 point	Vol / 500 point	Vol / 10,000 point	Vol / 50,000 point	Н	Hazard Identification	
Activation Buffer C	1 x 0.3 mL	1 x 0.8 mL	1 x 10 mL	1 x 50 mL		GHS05; H318, EUH208	
Dilution Buffer	1 x 1.8 mL	1 x 3 mL	1 x 60 mL	1 x 300 mL	N/A;	EUH208, EUH210	
Lysis Buffer B (5X)	1 x 12 mL	1 x 12 mL	4 x 60 mL	3 x 400 mL	♦	GHS07; H319, EUH208	
Reaction Buffer 1 - Ultra	1 x 0.9 mL	1 x 1.5 mL	1 x 28 mL	1 x 140 mL	N/A;	EUH208, EUH210	
Reaction Buffer 2 - Ultra	1 x 0.9 mL	1 x 1.5 mL	1 x 28 mL	1 x 140 mL	N/A;	EUH208, EUH210	
AlphaLISA® CaptSure ™ Acceptor Beads (2 mg/mL)	1 x 0.045mL	1 x 0.06 mL	1 x 1.1 mL	1 x 5.5 mL	N/A;	EUH208, EUH210	
Alpha Streptavidin Donor Beads (2 mg/mL)	1 x 0.045mL	1 x 0.06 mL	1 x 1.1 mL	1 x 5.5 mL	N/A;	N/A;	
Positive Control Lysate (lyophilized)	1 x 250uL	1 x 250uL	1 x 250uL	1 x 250uL	N/A;	EUH208, EUH210	
Supplement B	1 x 1.5 mL	1 x 1.5 mL	1 x 30 mL	1 x 135 mL	€	GHS07; H319, EUH208	

# Components and Hazard Identification for Individual Sale items

\*\*\* = assay target name

Composition		Ha	Hazards identification		
ALSU-AB-100ml ALSU-AB-10ml	Activation Buffer	<u>(1)</u>	GHS07; H319, EUH208		
ALSU-ABB-100ml ALSU-ABB-10ml	Activation Buffer B	N/A;	EUH208, EUH210		
ALSU-ABC-100ml ALSU-ABC-10ml	Activation Buffer C		GHS05; H318, EUH208		
ALSU-DB-100ml ALSU-DB-10ml	Dilution Buffer	N/A;	EUH208, EUH210		
ALSU-LB-100mL ALSU-LB-10mL	Lysis Buffer (5x)	<b>(</b> )	GHS07; H319, EUH208		
ALSU-LBB-100mL ALSU-LBB-10mL	Lysis Buffer B (5x) plus Supplement B (pack)	♦ ♦	GHS07; H319, EUH208 plus GHS07; H319, EUH208		
ALSU-LBC-100mL ALSU-LBC-10mL	Lysis Buffer C (5x) plus Supplement C (Pack)	♠	GHS07; H319, EUH208 plus GHS05; H318, EUH208		
ALSU-***-A-L	Positive Control Lysate	N/A;	EUH208, EUH210		
ALSU-ACAB-0.06mL ALSU-ACAB-1.2mL ALSU-ACAB-6mL	AlphaLISA® CaptSure ™ Acceptor Beads (2 mg/mL)	N/A;	EUH208, EUH210		
ALSU-ASDB-0.06mL ALSU-ASDB-1.2mL ALSU-ASDB-6mL	Alpha Streptavidin Donor Beads (2 mg/mL)	N/A;	N/A;		







# Activation Buffer C - Ultra TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: **5555-10**Version No: **7.1**Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **02/09/2024**Print Date: **21/09/2024**S.REACH.NLD.EN.E

#### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### 1.1. Product Identifier

Titi Tioddot Idollalloi	
Product name	Activation Buffer C - Ultra
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

#### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	TGR BioSciences Pty Ltd (an Abcam Company)		
Address	Unit 3-4, 31 George Street Thebarton SA 5031 Australia		
Telephone	+61 08 7228 2141		
Fax	Not Available		
Website	www.tgrbiosciences.com		
Email	ADE.info@abcam.com		

#### 1.4. Emergency telephone number

= gene) tereprone manage			
Association / Organisation	Chemtrec Aus/North America/Revvity		
Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)		
Other emergency telephone numbers	+1703-527-3887/+31505445971		

#### **SECTION 2 Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	H318 - Serious Eye Damage/Eye Irritation Category 1	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

# Hazard statement(s)

riazara statement(s)	
H318	Causes serious eye damage.

Chemwatch: 5555-10 Page 2 of 11 Issue Date: 02/09/2024

#### **Activation Buffer C - Ultra**

Version No: 7.1 Print Date: 21/09/2024

Contains CMIT/MIT 3:1. May produce an allergic reaction.

Precautionary statement(s) Prevention

**P280** Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary statement(s) Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/physician/first aider. P310

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material contains sodium lauryl sulfate, isothiazolinones, mixed.

#### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

#### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 151-21-3 2.205-788-1 3.Not Available 4.Not Available	<10	sodium lauryl sulfate	Flammable Solids Category 1, Acute Toxicity (Oral, Dermal and Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3; H228, H302+H312+H332, H315, H318, H335 [1]	SCL: Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available
1. 55965-84-9 2.Not Available 3.613-167-00-5 4.Not Available	0.01	isothiazolinones. mixed	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H314, H317, H318, H330, H400, H410 [2]	Skin Corr. 1C; H314: C ≥ 0,6 %   Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %   Eye Dam. 1; H318: C ≥ 0,6 %   Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %   Skin Sens. 1A; H317: C ≥ 0,0015 %   M=100   M=100  Acute M factor: 100  Chronic M factor: 100	Not Available
Not Available	balance	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend:			lassification drawn from Regulation (EU) No 1272/2008 - identified as having endocrine disrupting properties	Annex VI; 3. Classification dra	awn from C&L * EU

#### **SECTION 4 First aid measures**

4.1. Description of first aid me	asures
Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  P Quickly but gently, wipe material off skin with a dry, clean cloth.  Immediately remove all contaminated clothing, including footwear.  Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.  Transport to hospital, or doctor.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	Immediately give a glass of water.     First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

# 4.2 Most important symptoms and effects, both acute and delayed

Chemwatch: **5555-10** Page **3** of **11** 

#### **Activation Buffer C - Ultra**

Issue Date: **02/09/2024**Print Date: **21/09/2024** 

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Version No: 7.1

#### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

Foam.

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
5.3. Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> </ul>
<b>,</b>	Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) nitrogen oxides (NOx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material.

#### **SECTION 6 Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
Major Spills	Moderate hazard.  ▶ Clear area of personnel and move upwind.  ▶ Alert Fire Brigade and tell them location and nature of hazard.  ▶ Wear breathing apparatus plus protective gloves.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>	
Fire and explosion protection	See section 5	
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>	

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Plastic tube or Plastic Bottle.  Polyethylene or polypropylene container.  Packing as recommended by manufacturer.  Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as	Not Available

Chemwatch: 5555-10

**Activation Buffer C - Ultra** 

Page 4 of 11 Issue Date: 02/09/2024 Print Date: 21/09/2024

referred to in Article 3(10) for the application of

#### 7.3. Specific end use(s)

See section 1.2

Version No: 7.1

#### SECTION 8 Exposure controls / personal protection

#### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
sodium lauryl sulfate	Dermal 0.625 mg/kg bw/day (Systemic, Chronic) Inhalation 1.102 mg/m³ (Systemic, Chronic) Dermal 0.312 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.000272 mg/m³ (Systemic, Chronic) * Oral 0.156 mg/kg bw/day (Systemic, Chronic) *	0.012 mg/L (Water (Fresh)) 0.013 mg/L (Water - Intermittent release) 0.001 mg/L (Water (Marine)) 0.179 mg/kg sediment dw (Sediment (Fresh Water)) 0.018 mg/kg sediment dw (Sediment (Marine)) 0.028 mg/kg soil dw (Soil) 1.35 mg/L (STP)
isothiazolinones, mixed	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	0.00339 mg/L (Water (Fresh)) 0.00339 mg/L (Water - Intermittent release) 0.00339 mg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 0.23 mg/L (STP)

<sup>\*</sup> Values for General Population

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

#### Not Applicable

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
sodium lauryl sulfate	3.9 mg/m3	43 mg/m3		260 mg/m3
Ingredient	Original IDLH		Revised IDLH	

sodium lauryl sulfate	Not Available	Not Available
isothiazolinones, mixed	Not Available	Not Available

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
sodium lauryl sulfate	E	≤ 0.01 mg/m³	
isothiazolinones, mixed	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### 8.2.2. Individual protection measures, such as personal protective equipment













#### Eye and face protection

- Safety glasses with side shields
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

#### Hands/feet protection

#### ▶ Wear chemical protective gloves, e.g. PVC.

▶ Wear safety footwear or safety gumboots, e.g. Rubber

#### NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Chemwatch: 5555-10 Page 5 of 11 Issue Date: 02/09/2024 Version No: 7.1 Print Date: 21/09/2024

#### **Activation Buffer C - Ultra**

	Personal hygiene is a key element of effective hand care.	
Body protection	See Other protection below	
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>	

#### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

#### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

#### **SECTION 11 Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhaled

Chemwatch: **5555-10** Page 6 of 11 Issue Date: 02/09/2024 Version No: 7.1 Print Date: 21/09/2024

#### Activation Buffer C - Ultra

	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	Considered an unlikely route of entry in commercial/industrial environments  The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models).  Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.			
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the			
Evo	skin prior to the use of the material and ensure that any extern			
Eye	If applied to the eyes, this material causes severe eye damage Substance accumulation, in the human body, may occur and r	may cause some concern following repeated or long-term occupational		
Chronic	exposure.  There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.  There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.			
	TOXICITY	IRRITATION		
Activation Buffer C - Ultra	Not Available	Not Available		
	TOXICITY	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit):100 mg/24 hr-moderate		
	Oral (Rat) LD50: 1288 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>		
sodium lauryl sulfate		Eye: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin (human): 25 mg/24 hr - mild		
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
		Skin: adverse effect observed (irritating) <sup>[1]</sup>		
	TOXICITY	IRRITATION		
	dermal (rat) LD50: >1008 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>		
isothiazolinones, mixed	Inhalation (Rat) LC50: 0.171 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
	Oral (Rat) LD50: 53 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>		
Legend:	Nalue obtained from Europe ECHA Registered Substances specified data extracted from RTECS - Register of Toxic Effective Company (Company)	- Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise t of chemical Substances		
SODIUM LAURYL SULFATE	(rabbit) 10: mg-Based on laboratory and animal testing, exposure to the mate Alkyl sulfates are irritating to the skin, harmful if swallowed anliver and excreted via urine. They produce dose-dependent to genetic defects.  For alkyl sulfates; alkane sulfonates and alpha-olefin sulfonate Most chemicals of this category are not defined substances, b and/or biological pathways result in structurally similar breakd similar environmental behavior and essentially identical hazar Acute toxicity: These substances are well absorbed after ingenchemicals are distributed mainly to the liver.	out mixtures of homologues with different alkyl side chains. Common physical own products, and are, together with the surfactant properties, responsible for d profiles with regard to human health. stion; penetration through the skin is however, poor. After absorption, these standing up, decreased motor activity and breathing rate, and diarrhea.		
ISOTHIAZOLINONES, MIXED	The following information refers to contact allergens as a group and may not be specific to this product.  Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.  In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.  Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-professional users. No significant acute toxicological data identified in literature search.  Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations cont			
SODIUM LAURYL SULFATE & ISOTHIAZOLINONES, MIXED	production of vesicles, scaling and thickening of the skin.  Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS			

Chemwatch: 5555-10

**Activation Buffer C - Ultra** 

Page **7** of **11** Issue Date: 02/09/2024 Print Date: 21/09/2024

include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X − Data either not available or does not fill the criteria for classification
✓ − Data available to make classification

#### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

Version No: 7.1

#### **SECTION 12 Ecological information**

#### 12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Activation Buffer C - Ultra	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	4.8mg/l	2
	EC50	48h	Crustacea	0.939mg/l	1
sodium lauryl sulfate	LC50	96h	Fish	0.59mg/L	4
	EC0(ECx)	72h	Algae or other aquatic plants	30mg/l	1
	EC50	96h	Algae or other aquatic plants	0.4- 3.7mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.006mg/L	2
	EC50	48h	Crustacea	0.007mg/l	2
isothiazolinones, mixed	LC50	96h	Fish	0.129mg/l	2
	EC50	96h	Algae or other aquatic plants	0.036mg/L	2
	NOEC(ECx)	48h	Algae or other aquatic plants	<0.001mg/L	2
Legend:			HA Registered Substances - Ecotoxicological Inform Aquatic Hazard Assessment Data 6. NITE (Japan) -		

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium lauryl sulfate	HIGH	HIGH

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
sodium lauryl sulfate	LOW (BCF = 7.15)

#### 12.4. Mobility in soil

Ingredient	Mobility
sodium lauryl sulfate	LOW (Log KOC = 10220)

# 12.5. Results of PBT and vPvB assessment

	Р	В	T	
Relevant available data	Not Available	Not Available	Not A	vailable
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?	PBT Criteria fulfilled?			No
vPvB			No	

Chemwatch: 5555-10 Page 8 of 11 Version No: 7.1

**Activation Buffer C - Ultra** 

Issue Date: 02/09/2024 Print Date: 21/09/2024

#### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

#### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

Product / Packaging disposal	Consult State Land Waste Management Authority for disposal.	
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

#### **SECTION 14 Transport information**

## Labels Required

Marine Pollutant	NO

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS				
14.1. UN number or ID number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)		t Applicablet Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Hazard identification (Kem	Not Applicable  Not Applicable		
14.6. Special precautions for	Hazard Label	Not Applicable		
user	Special provisions	Not Applicable		
	Limited quantity	Not Applicable		
	Tunnel Restriction Code	Not Applicable		

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class	Not Applicable		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	ICAO / IATA Subsidiary Hazard Not Applicable		
olado(co)	ERG Code	Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
usei	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Qu	Passenger and Cargo Limited Quantity Packing Instructions		
	Passenger and Cargo Limited Ma	Passenger and Cargo Limited Maximum Qty / Pack		

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazard	Not Applicable  Not Applicable	
14.4. Packing group	Not Applicable		
14.5 Environmental hazard	Not Applicable		

Chemwatch: 5555-10 Version No: 7.1

**Activation Buffer C - Ultra** 

Issue Date: **02/09/2024**Print Date: **21/09/2024** 

	EMS Number	Not Applicable
14.6. Special precautions for user	Special provisions	Not Applicable
400.	Limited Quantities	Not Applicable

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Not Applicable Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Classification code Special provisions	Not Applicable  Not Applicable	
14.6. Special precautions for user	Limited quantity	Not Applicable	
	Equipment required	Not Applicable	
	Fire cones number	Not Applicable	

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium lauryl sulfate	Not Available
isothiazolinones, mixed	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium lauryl sulfate	Not Available
isothiazolinones, mixed	Not Available

#### **SECTION 15 Regulatory information**

# 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

#### sodium lauryl sulfate is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

#### isothiazolinones, mixed is found on the following regulatory lists

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

#### **Additional Regulatory Information**

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

## Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

National inventory Status	
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	No (isothiazolinones, mixed)
Canada - DSL	Yes
Canada - NDSL	No (isothiazolinones, mixed)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (isothiazolinones, mixed)
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes

Chemwatch: 5555-10 Version No. 7.1

## **Activation Buffer C - Ultra**

Issue Date: 02/09/2024 Print Date: 21/09/2024

National Inventory	Status
USA - TSCA	No (isothiazolinones, mixed)
Taiwan - TCSI	Yes
Mexico - INSQ	No (isothiazolinones, mixed)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	02/09/2024
Initial Date	12/07/2022

#### Full text Risk and Hazard codes

H228	Flammable solid.
H301	Toxic if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### **SDS Version Summary**

Version	Date of Update	Sections Updated			
6.1	15/08/2024	Physical and chemical properties - Appearance, Identification of the substance / mixture and of the company / undertaking - Synonyms			
7.1	02/09/2024	Physical and chemical properties - Appearance, Identification of the substance / mixture and of the company / undertaking - Synonyms			

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
   IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ► ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory

Chemwatch: 5555-10 Page 11 of 11 Issue Date: 02/09/2024 Version No: 7.1 Print Date: 21/09/2024

#### **Activation Buffer C - Ultra**

- NZIoC: New Zealand Inventory of Chemicals
   PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
  FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Serious Eye Damage/Eye Irritation Category 1, H318	Minimum classification	
, EUH208	Calculation method	

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.



# Dilution Buffer - Ultra TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: **5555-18**Version No: **4.1**Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **25/10/2022**Print Date: **21/09/2024**S.REACH.NLD.EN.E

#### SECTION 1 Identification of the substance / mixture and of the company / undertaking

1	1	D٢	a	 cŧ	ы	۵n	tifi	۵r

The Foundation of the Francisco		
Product name	Dilution Buffer - Ultra	
Chemical Name	Not Applicable	
Synonyms	Dilution Buffer A	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.			
Uses advised against	No specific uses advised against are identified.			

#### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	GR BioSciences Pty Ltd (an Abcam Company)			
Address	3-4, 31 George Street Thebarton SA 5031 Australia			
Telephone	+61 08 7228 2141			
Fax	Not Available			
Website	www.tgrbiosciences.com			
Email	ADE.info@abcam.com			

#### 1.4. Emergency telephone number

= go , 10.0p		
	Association / Organisation	Chemtrec Aus/North America/Revvity
	Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)
	Other emergency telephone numbers	+1703-527-3887/+31505445971

#### **SECTION 2 Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	Non hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### 2.2. Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

#### Hazard statement(s)

Not Applicable

#### Supplementary statement(s)

Carpionianian, Grandiniania,			
EUH208 Contains CMIT/MIT 3:1. May produce an allergic reaction.			
EUH210	Safety data sheet available on request.		

Chemwatch: 5555-18 Page 2 of 9

Version No: 4.1

**Dilution Buffer - Ultra** 

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material contains isothiazolinones, mixed,

#### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

#### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 55965-84-9 2.Not Available 3.613-167-00-5 4.Not Available	<0.01	isothiazolinones. mixed	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H314, H317, H318, H330, H400, H410 [2]	Skin Corr. 1C; H314: C ≥ 0,6 %   Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %   Eye Dam. 1; H318: C ≥ 0,6 %   Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %   Skin Sens. 1A; H317: C ≥ 0,0015 %   M=100   M=100  Acute M factor: 100  Chronic M factor: 100	Not Available
Not Available	balance	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend:			lassification drawn from Regulation (EU) No 1272/2008 -	- Annex VI; 3. Classification dra	awn from C&L * E

#### **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

4.1. Description of first and measures				
Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.			
Skin Contact	If skin or hair contact occurs:  ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.			
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>			
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>			

## 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

• foam.

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising age

• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Issue Date: 25/10/2022

Print Date: 21/09/2024

Chemwatch: 5555-18 Page 3 of 9
Version No: 4.1

**Dilution Buffer - Ultra** 

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

#### 5.3. Advice for firefighters

Fire Fighting	<ul> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Do not approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposition may produce toxic fumes of: carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>

#### **SECTION 6 Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
Major Spills	Minor hazard.  ▶ Clear area of personnel.  ▶ Alert Fire Brigade and tell them location and nature of hazard.  ▶ Control personal contact with the substance, by using protective equipment as required.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> </ul>		
Fire and explosion protection	See section 5		
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>		

#### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Plastic tube or plastic bottle.  Polyethylene or polypropylene container.  Packing as recommended by manufacturer.  Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

#### 7.3. Specific end use(s)

See section 1.2

## SECTION 8 Exposure controls / personal protection

## 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment			
isothiazolinones, mixed	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	0.00339 mg/L (Water (Fresh)) 0.00339 mg/L (Water - Intermittent release) 0.00339 mg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 0.23 mg/L (STP)			

Chemwatch: 5555-18 Version No: 4.1

#### **Dilution Buffer - Ultra**

Issue Date: 25/10/2022 Print Date: 21/09/2024

## Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

#### Not Applicable

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2		TEEL-3
Dilution Buffer - Ultra	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
isothiazolinones, mixed	Not Available		Not Available	

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
isothiazolinones, mixed	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### 8.2.2. Individual protection measures, such as personal protective equipment









#### Eye and face protection

#### Safety glasses with side shields

- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

#### Skin protection

See Hand protection below

#### Hands/feet protection

▶ Wear general protective gloves, eg. light weight rubber gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice Personal hygiene is a key element of effective hand care.

#### **Body protection**

See Other protection below No special equipment needed when handling small quantities.

#### Other protection

- OTHERWISE: Overalls.
- Barrier cream.
- Evewash unit.

#### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

#### 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable

<sup>\*</sup> Values for General Population

Page 5 of 9

**Dilution Buffer - Ultra** 

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

Version No: 4.1

#### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

#### **SECTION 11 Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Long-term exposure to the product is not thought to product animal models); nevertheless exposure by all routes sho	duce chronic effects adverse to the health (as classified by EC Directives using buld be minimised as a matter of course.	
Chronic  Dilution Buffer - Ultra	animal models); nevertheless exposure by all routes sho	ould be minimised as a matter of course.	
	animal models); nevertheless exposure by all routes sho	IRRITATION	
Dilution Buffer - Ultra	animal models); nevertheless exposure by all routes show that a sh	IRRITATION  Not Available	
	animal models); nevertheless exposure by all routes show that a sh	IRRITATION  Not Available  IRRITATION	
Dilution Buffer - Ultra	animal models); nevertheless exposure by all routes show that the second of the second	IRRITATION  Not Available  IRRITATION  Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	

#### ISOTHIAZOLINONES, MIXED

The following information refers to contact allergens as a group and may not be specific to this product.

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.

Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-professional users. No significant acute toxicological data identified in literature search.

Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it

Chemwatch: **5555-18** Page **6** of **9** 

**Dilution Buffer - Ultra** 

disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations containing amines.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic

Astima-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

Data either not available or does not fill the criteria for classification

Issue Date: 25/10/2022

Print Date: 21/09/2024

✓ – Data available to make classification

#### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

Version No: 4.1

#### **SECTION 12 Ecological information**

#### 12.1. Toxicity

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	0.006mg/L	2
EC50	48h	Crustacea	0.007mg/l	2
LC50	96h	Fish	0.129mg/l	2
EC50	96h	Algae or other aquatic plants	0.036mg/L	2
NOEC(ECx)	48h	Algae or other aquatic plants	<0.001mg/L	2
Extracted from	1. IUCLID Toxicity Data 2. Europe E	CHA Registered Substances - Ecotoxicological Inform	nation - Aquatic Toxicity	4. US EF
	Endpoint EC50 EC50 LC50 EC50 NOEC(ECx)  Extracted from	Endpoint         Test Duration (hr)           EC50         72h           EC50         48h           LC50         96h           EC50         96h           NOEC(ECx)         48h	Available  Not Available	Available         Not Available         Available           Endpoint         Test Duration (hr)         Species         Value           EC50         72h         Algae or other aquatic plants         0.006mg/L           EC50         48h         Crustacea         0.007mg/l           LC50         96h         Fish         0.129mg/l           EC50         96h         Algae or other aquatic plants         0.036mg/L

#### 12.2. Persistence and degradability

	•		
Ingredient Persistence: Water/		Persistence: Water/Soil	Persistence: Air
		No Data available for all ingredients	No Data available for all ingredients

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

#### 12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

#### 12.5. Results of PBT and vPvB assessment

	Р	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?				
vPvB	No			

## 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

Chemwatch: 5555-18 Version No: 4.1

**Dilution Buffer - Ultra** 

Page 7 of 9 Issue Date: 25/10/2022 Print Date: 21/09/2024

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

#### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

Product / Packaging disposal	Consult State Land Waste Management Authority for disposal.	
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

#### **SECTION 14 Transport information**

#### **Labels Required**

Marine Pollutant	NO

#### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1.	UN number or ID number	Not Applicable		
14.2.	UN proper shipping name	Not Applicable		
14.3.	Transport hazard	Class	Not Appl	olicable
class(es)	Subsidiary Hazard	Not Appl	licable	
14.4.	Packing group	Not Applicable		
14.5.	Environmental hazard	Not Applicable		
	Hazard identification	(Kemler)	Not Applicable	
		Classification code		Not Applicable
14.6.	Special precautions for	Hazard Label		Not Applicable
user	Special provisions		Not Applicable	
	Limited quantity		Not Applicable	
	Tunnel Restriction C	ode	Not Applicable	

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. <b>UN nu</b> i	mber	Not Applicable			
14.2. UN pro name	oper shipping	Not Applicable			
440 =		ICAO/IATA Class	Not Applicable		
14.3. Transp class(e		ICAO / IATA Subsidiary Hazard	Not Applicable		
	0.000(00)	ERG Code	Not Applicable		
14.4. Packin	ng group	Not Applicable			
14.5. <b>Enviro</b>	nmental hazard	Not Applicable			
		Special provisions		Not Applicable	
		Cargo Only Packing Instructions		Not Applicable	
		Cargo Only Maximum Qty / Pack		Not Applicable	
-	14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
usei		Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable		
		Passenger and Cargo Limited Ma	aximum Qty / Pack	Not Applicable	

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class     Not Applicable       IMDG Subsidiary Hazard     Not Applicable		
14.4. Packing group	Not Applicable		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable		

Chemwatch: 5555-18 Page 8 of 9

**Dilution Buffer - Ultra** 

Version No: 4.1

Print Date: 21/09/2024

Issue Date: 25/10/2022

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Not Applicable Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Classification code	Not Applicable	
	Special provisions	Not Applicable	
14.6. Special precautions for user	Limited quantity	Not Applicable	
	Equipment required	Not Applicable	
	Fire cones number	Not Applicable	

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
isothiazolinones, mixed	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
isothiazolinones, mixed	Not Available

#### **SECTION 15 Regulatory information**

#### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

#### isothiazolinones, mixed is found on the following regulatory lists

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

#### Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

#### Information according to 2012/18/EU (Seveso III):

Seveso Category	Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non- Industrial Use	No (isothiazolinones, mixed)		
Canada - DSL	Yes		
Canada - NDSL	No (isothiazolinones, mixed)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	No (isothiazolinones, mixed)		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	No (isothiazolinones, mixed)		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (isothiazolinones, mixed)		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

#### **SECTION 16 Other information**

**Dilution Buffer - Ultra** 

Issue Date: 25/10/2022 Print Date: 21/09/2024

Revision Date	25/10/2022
Initial Date	13/07/2022

#### Full text Risk and Hazard codes

H301	oxic if swallowed.	
H310	Fatal in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	16/08/2022	Name
4.1	25/10/2022	Disposal considerations - Disposal, Handling and storage - Storage (storage incompatibility), Identification of the substance / mixture and of the company / undertaking - Synonyms

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists

- STEL: Short Term Exposure Limit
   TEEL: Temporary Emergency Exposure Limit,
   IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- BEI: Biological Exposure IndexDNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List

- NDSL: Non-Domestic Substances List
   IECSC: Inventory of Existing Chemical Substance in China
   EINECS: European Inventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ► NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.



# Lysis Buffer B

# TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: **5697-25**Version No: **2.1**Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **02/09/2024** Print Date: **21/09/2024** S.REACH.NLD.EN.E

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### 1.1. Product Identifier

T.T. I TOUGOT IGCITATION	
Product name	Lysis Buffer B
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.	
Uses advised against	No specific uses advised against are identified.	

#### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	TGR BioSciences Pty Ltd (an Abcam Company)
Address	Unit 3-4, 31 George Street Thebarton SA 5031 Australia
Telephone	+61 08 7228 2141
Fax	Not Available
Website	www.tgrbiosciences.com
Email	ADE.info@abcam.com

#### 1.4. Emergency telephone number

Association / Organisation	Chemtrec Aus/North America/Revvity
Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)
Other emergency telephone numbers	+1703-527-3887/+31505445971

#### **SECTION 2 Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	H319 - Serious Eye Damage/Eye Irritation Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

#### Hazard statement(s)

nazara statement(s)	
H319	Causes serious eye irritation.

Chemwatch: 5697-25 Version No: 2.1

Lysis Buffer B

Page 2 of 11 Issue Date: 02/09/2024 Print Date: 21/09/2024

EUH208	Contains . May produce an allergic reaction.
--------	--

#### Precautionary statement(s) Prevention

P280 Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

 $\label{thm:material} \textit{Material contains p-tert-octylphenol ethoxylate, sodium fluoride, isothiazolinones, mixed.}$ 

#### 2.3. Other hazards

p-tert-octylphenol ethoxylate	Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation			
p-tert-octylphenol ethoxylate	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XIV List of Substances Subject to Authorisation			
p-tert-octylphenol ethoxylate	Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and Europe Regulation (EU) 2018/605			

#### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 9002-93-1 2.Not Available 3.Not Available 4.Not Available	<2.5	p-tert-octylphenol ethoxylate [e]	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 2; H302, H315, H318, H411, EUH205 [1]	SCL: Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available
1. 55965-84-9 2.Not Available 3.613-167-00-5 4.Not Available	<0.01	isothiazolinones, mixed	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H314, H317, H318, H330, H400, H410 [2]	Skin Corr. 1C; H314: C ≥ 0,6 %   Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %   Eye Dam. 1; H318: C ≥ 0,6 %   Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %   Skin Sens. 1A; H317: C ≥ 0,0015 %   M=100   M=100   Acute M factor: 100 Chronic M factor: 100	Not Available
1. 7681-49-4 2.231-667-8 3.009-004-00-7 4.Not Available	>0.1	sodium fluoride *	Acute Toxicity (Oral) Category 3, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H301, H315, H319 [2]	SCL: Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available
Not Available	balance	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend:			classification drawn from Regulation (EU) No 1272/2008 - identified as having endocrine disrupting properties	· Annex VI; 3. Classification dra	awn from C&L * EU

#### **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

Wash out immediately with fresh running water.

Eye Contact

- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

#### Skin Contact

If skin contact occurs: ▶ Immediately remove all contaminated clothing, including footwear.

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

Chemwatch: 5697-25 Page 3 of 11 Version No: 2.1

Lysis Buffer B

• If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation Other measures are usually unnecessary. Immediately give a glass of water. Ingestion First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

Fire Incompatibility

#### 5.1. Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
   Use extinguishing media suitable for surrounding area.

#### 5.2. Special hazards arising from the substrate or mixture

5.3. Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>▶ The material is not readily combustible under normal conditions.</li> <li>▶ However, it will break down under fire conditions and the organic component may burn.</li> <li>▶ Not considered to be a significant fire risk.</li> <li>▶ Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposition may produce toxic fumes of: carbon dioxide (CO2) other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> </ul>

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### **SECTION 6 Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

May emit corrosive fumes.

See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
Major Spills	Moderate hazard.  ▶ Clear area of personnel and move upwind.  ▶ Alert Fire Brigade and tell them location and nature of hazard.  ▶ Wear breathing apparatus plus protective gloves.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> </ul>
Fire and explosion protection	See section 5
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Plastic Bottles Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents

Issue Date: 02/09/2024

Print Date: 21/09/2024

Chemwatch: 5697-25 Page 4 of 11

Lysis Buffer B

Issue Date: 02/09/2024 Version No: 2.1 Print Date: 21/09/2024

Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

#### 7.3. Specific end use(s)

See section 1.2

#### SECTION 8 Exposure controls / personal protection

#### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment	
isothiazolinones, mixed	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	0.00339 mg/L (Water (Fresh)) 0.00339 mg/L (Water - Intermittent release) 0.00339 mg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 0.23 mg/L (STP)	
sodium fluoride	Dermal 0.36 mg/kg bw/day (Systemic, Chronic) Inhalation 2.5 mg/m³ (Local, Chronic) Dermal 0.36 mg/kg bw/day (Systemic, Acute) Inhalation 2.5 mg/m³ (Systemic, Acute)	0.9 mg/L (Water (Fresh)) 11 mg/kg soil dw (Soil) 51 mg/L (STP)	

<sup>\*</sup> Values for General Population

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Netherlands Occupational Exposure Limits	sodium fluoride	Fluoriden, anorganisch en oplosbaar (als F)	Not Available	2 mg/m3	Not Available	Α
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	sodium fluoride	Inorganic Fluorides	2.5 mg/m3	Not Available	Not Available	Skin

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
sodium fluoride	17 mg/m3	90 mg/m3	1,100 mg/m3

Ingredient	Original IDLH	Revised IDLH
p-tert-octylphenol ethoxylate	Not Available	Not Available
isothiazolinones, mixed	Not Available	Not Available
sodium fluoride	250 mg/m3	Not Available

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
p-tert-octylphenol ethoxylate	E	≤ 0.1 ppm	
isothiazolinones, mixed	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### 8.2.2. Individual protection measures, such as personal protective equipment











#### Eye and face protection

- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

# See Hand protection below

## Hands/feet protection

Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber

Page 5 of 11 Issue Date: 02/09/2024 Chemwatch: 5697-25 Version No: 2.1 Print Date: 21/09/2024

#### Lysis Buffer B

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be cadvance and has therefore to be checked prior to the application.  The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to when making a final choice.  Personal hygiene is a key element of effective hand care.	
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>

#### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

## **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

Lysis Buffer B

Issue Date: 02/09/2024 Print Date: 21/09/2024

	asses as defined in Regulation (EC) No 1272/2008					
Inhaled	Not normally a hazard due to non-volatile nature of product The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.					
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.					
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.					
Eye	This material can cause eye irritation and damage in some persons.					
Chronic	Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.  Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother.  There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.					
	TOXICITY	IRRITATION				
Lysis Buffer B	Not Available	Not Available				
	TOXICITY	IRRITATION				
p-tert-octylphenol ethoxylate	Oral (Rat) LD50: 1800 mg/kg <sup>[2]</sup>	Eye (rabbit): 1 mg - moderate				
tort ootypnonor othoxylate	Oral (Nat) E550. 1000 Hig/kg	Skin (human): 2 mg/3d -l - mild				
	TOXICITY	IRRITATION				
isothiazolinones, mixed	dermal (rat) LD50: >1008 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>				
	Inhalation (Rat) LC50: 0.171 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>				
	Oral (Rat) LD50: 53 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>				
	TOXICITY	IRRITATION				
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 20 mg/24h-moderate				
sodium fluoride	Oral (Rat) LD50: >25<2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>				
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>				
		1				
Legend:	specified data extracted from RTECS - Register of Toxic					
Legend: P-TERT-OCTYLPHENOL ETHOXYLATE	Octoxynols: Octoxynols: Octoxynols of various chain lengths as well as octoxynol agents, surfactants-cleansing agents, surfactant-solubiliz concentrations ranging from 0.0008% to 25%, with most nonoxynols (9 and above) were considered safe as used rinse-off products and safe at concentrations less than 50 bronchopulmonary lavage produced pneumonia, pulmonary lavage produced pneumonia, pulmonary lavage produced pneumonia, pulmonary lavage produced pneumonia pulmonary lavage produced pneumonia, pulmonary lavage produced pneumonia	salts and organic acids function in cosmetics either as surfactants-emulsifying in agents, or surfactants-hydrotropes in a wide variety of cosmetic products at ess than 5.0%. The octoxynols are chemically similar to nonoxynols. Long-chain whereas short-chain nonoxynols (8 and below) were considered safe as used in 6 in leave-on formulations. Acute exposure of hamsters to Octoxynol-9 by any edema, and intra-alveolar hemorrhage.  The product such as soaps, detergents are no occur through swallowing, inhalation, or contact with the skin or eyes. Studies of the too occur to produce any toxic response. No death due to poisoning with alcohols is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations as were observed.				
P-TERT-OCTYLPHENOL	Octoxynols: Octoxynols of various chain lengths as well as octoxynol agents, surfactants-cleansing agents, surfactant-solubiliz concentrations ranging from 0.0008% to 25%, with most innoxynols (9 and above) were considered safe as used rinse-off products and safe at concentrations less than 5% bronchopulmonary lavage produced pneumonia, pulmon-Humans have regular contact with alcohol ethoxylates the other cleaning products. Exposure to these chemicals cal acute toxicity show that relatively high volumes would have ethoxylates has ever been reported.  Both laboratory and animal testing has shown that there is cancer. No adverse reproductive or developmental effect.  The following information refers to contact allergens as a Contact allergies quickly manifest themselves as contact contact eczema involves a cell-mediated (T lymphocytes) urticaria, involve antibody-mediated immune reactions. In light of potential adverse effects, and to ensure a harm biocides has been established with the objective of ensure this aim, it is required that risk assessment of biocidal prother risk assessment of the biocidal products are the utilizapplications and thus the exposure of humans and the er Humans may be exposed to biocidal products in different intended for industrial sectors or professional uses only, uprofessional users. No significant acute toxicological date Formaldehyde generators (releasers) are often used as pand must be labelled with the warning sign "contains form releasing preservatives ensures that the level of free form disrupts metabolism to cause death of the organism. How of causing cancers (nitrosamines) when used in formulation the material may be irritating to the eye, with prolonged or produce conjunctivitis.	salts and organic acids function in cosmetics either as surfactants-emulsifying ng agents, or surfactants-hydrotropes in a wide variety of cosmetic products at ess than 5.0%. The octoxynols are chemically similar to nonoxynols Long-chain whereas short-chain nonoxynols (8 and below) were considered safe as used in & in leave-on formulations. Acute exposure of hamsters to Octoxynol-9 by any edema, and intra-alveolar hemorrhage.  The occur through swallowing, inhalation, or contact with the skin or eyes. Studies of the to occur to produce any toxic response. No death due to poisoning with alcohosts were observed.  The occur through swallowing inhalation, or contact with the skin or eyes. Studies of the too occur to produce any toxic response. No death due to poisoning with alcohosts were observed.  The pathogenesis of the occur and may not be specific to this product.  The pathogenesis of the immune reaction of the delayed type. Other allergic skin reactions, e.g. contact on the delayed type. Other allergic skin reactions, e.g. contact on a high level of protection of human and animal health and the environment. The ducts is carried out before they can be placed on the market. A central element in ation instructions that defines the dosage, application method and amount of the vironment to the biocidal substance.  The occur and the defines the dosage, application method and amount of the occupational and domestic settings. Many biocidal products are whereas other biocidal products are commonly available for private use by non-identified in literature search.  The maximum authorised concentration of free formaldehyde is 0.2 maldehyde where the concentration exceeds 0.05%. The use of formaldehyde were there is a concern that formaldehyde generators can produce amines capative rever there is a concern that formaldehyde generators can produce amines capative rever there is a concern that formaldehyde generators can produce amines capative reverse.				
P-TERT-OCTYLPHENOL ETHOXYLATE	Octoxynols: Octoxynols of various chain lengths as well as octoxynol agents, surfactants-cleansing agents, surfactant-solubiliz concentrations ranging from 0.0008% to 25%, with most innonxynols (9 and above) were considered safe as used rinse-off products and safe at concentrations less than 5% bronchopulmonary lavage produced pneumonia, pulmon-Humans have regular contact with alcohol ethoxylates the other cleaning products. Exposure to these chemicals cal acute toxicity show that relatively high volumes would have ethoxylates has ever been reported.  Both laboratory and animal testing has shown that there is cancer. No adverse reproductive or developmental effect.  The following information refers to contact allergens as a Contact allergies quickly manifest themselves as contact contact eczema involves a cell-mediated (T lymphocytes, urticaria, involve antibody-mediated immune reactions. In light of potential adverse effects, and to ensure a harm biocides has been established with the objective of ensure the risk assessment of the biocidal products are the utilizapplications and thus the exposure of humans and the er Humans may be exposed to biocidal products in different intended for industrial sectors or professional uses only, is professional users. No significant acute toxicological data Formaldehyde generators (releasers) are often used as pand must be labelled with the warning sign "contains form releasing preservatives ensures that the level of free form disrupts metabolism to cause death of the organism. How of causing cancers (nitrosamines) when used in formulation the material may be irritating to the eye, with prolonged or produce conjunctivitis.  The material may cause skin irritation after prolonged or in production of vesicles, scaling and thickening of the skin.	salts and organic acids function in cosmetics either as surfactants-emulsifying ing agents, or surfactants-hydrotropes in a wide variety of cosmetic products at ess than 5.0%. The octoxynols are chemically similar to nonoxynols Long-chain whereas short-chain nonoxynols (8 and below) were considered safe as used in & in leave-on formulations. Acute exposure of hamsters to Octoxynol-9 by any edema, and intra-alveolar hemorrhage.  Tough a variety of industrial and consumer products such as soaps, detergents are noccur through swallowing, inhalation, or contact with the skin or eyes. Studies of the tooccur to produce any toxic response. No death due to poisoning with alcohols is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations as were observed.  Tough and may not be specific to this product.  The pathogenesis of a immune reaction of the delayed type. Other allergic skin reactions, e.g. contact consider risk assessment and management, the EU regulatory framework for ing a high level of protection of human and animal health and the environment. To ducts is carried out before they can be placed on the market. A central element in ation instructions that defines the dosage, application method and amount of exironment to the biocidal substance.  The ways in both occupational and domestic settings. Many biocidal products are whereas other biocidal products are commonly available for private use by non-identified in literature search.  The maximum authorised concentration of free formaldehyde is 0.2 haldehyde where the concentration exceeds 0.05%. The use of formaldehyde-haldehyde in the products is always low but sufficient to inhibit microbial growthever there is a concern that formaldehyde generators can produce amines capal contact causing inflammation. Repeated or prolonged exposure to irritants may contact causing inflammation. Repeated or prolonged exposure to irritants may				

Chemwatch: **5697-25** Page **7** of **11** 

Version No: 2.1 Lysis Buffer B Print Date: 21/09/2024

# ISOTHIAZOLINONES, MIXED & SODIUM FLUORIDE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	X	Reproductivity	×
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X − Data either not available or does not fill the criteria for classification

✓ − Data available to make classification

Issue Date: 02/09/2024

#### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Many chemicals may mimic or interfere with the body s hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

#### 11.2.2. Other information

See Section 11.1

#### **SECTION 12 Ecological information**

#### 12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Lysis Buffer B	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
p-tert-octylphenol ethoxylate	LC50	96h	Fish	>2.8<3.2mg/L	4
	EC50(ECx)	96h	Fish	3mg/L	5
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.006mg/L	2
	EC50	48h	Crustacea	0.007mg/l	2
isothiazolinones, mixed	LC50	96h	Fish	0.129mg/l	2
	EC50	96h	Algae or other aquatic plants	0.036mg/L	2
	NOEC(ECx)	48h	Algae or other aquatic plants	<0.001mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	672h	Fish	<0.66	7
	EC50	72h	Algae or other aquatic plants	>121.8mg/L	4
sodium fluoride	EC50	48h	Crustacea	36.2mg/L	5
	LC50	96h	Fish	38-68mg/l	4
	EC50	96h	Algae or other aquatic plants	43mg/l	2
	NOEC(ECx)	2160h	Fish	3.1mg/l	4
Legend:	Ecotox databas		A Registered Substances - Ecotoxicological Informutatic Hazard Assessment Data 6. NITE (Japan)		

DO NOT discharge into sewer or waterways.

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
p-tert-octylphenol ethoxylate	HIGH	HIGH
sodium fluoride	LOW	LOW

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
p-tert-octylphenol ethoxylate	HIGH (LogKOW = 4.863)
sodium fluoride	LOW (BCF = 6.4)

Chemwatch: 5697-25 Version No: 2.1

Lysis Buffer B

Issue Date: **02/09/2024**Print Date: **21/09/2024** 

Ingredient	Mobility
p-tert-octylphenol ethoxylate	LOW (Log KOC = 699.2)
sodium fluoride	LOW (Log KOC = 14.3)

#### 12.5. Results of PBT and vPvB assessment

	Р	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			No
vPvB			No

#### 12.6. Endocrine disrupting properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine distruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformaties.

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

#### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

Product / Packaging disposal	Consult State Land Waste Management Authority for disposal.
Waste treatment options	Not Available
Sewage disposal options	Not Available

#### **SECTION 14 Transport information**

#### **Labels Required**

Marine Pollutant	NO

# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable					
14.2. UN proper shipping name	Not Applicable					
14.3. Transport hazard	Class	Not Appli	cable			
class(es)	Subsidiary Hazard	Not Appli	cable			
14.4. Packing group	Not Applicable	Not Applicable				
14.5. Environmental hazard	Not Applicable					
	Hazard identification	(Kemler)	Not Applicable			
	Classification code		Not Applicable			
14.6. Special precautions for user	Hazard Label		Not Applicable			
	Special provisions		Not Applicable			
	Limited quantity		Not Applicable			
	Tunnel Restriction Co	ode	Not Applicable			

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable					
14.2. UN proper shipping name	Not Applicable					
	ICAO/IATA Class	Not Applicable				
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable				
ciass(es)	ERG Code	Not Applicable				
14.4. Packing group	Not Applicable	Not Applicable				
14.5. Environmental hazard	Not Applicable	Not Applicable				
14.6. Special precautions for user	Special provisions		Not Applicable			
	Cargo Only Packing Instructions		Not Applicable			
	Cargo Only Maximum Qty / Pack		Not Applicable			

Chemwatch: 5697-25 Page 9 of 11
Version No: 2.1

Lysis Buffer B

Passenger and Cargo Packing Instructions

Passenger and Cargo Maximum Qty / Pack

Passenger and Cargo Limited Quantity Packing Instructions

Not Applicable

Passenger and Cargo Limited Maximum Qty / Pack

Not Applicable

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Not Applicable	
Not Applicable	
IMDG Class	Not Applicable
IMDG Subsidiary Ha	azard Not Applicable
Not Applicable	
Not Applicable	
EMS Number	Not Applicable
Special provisions	Not Applicable
Limited Quantities	Not Applicable
	Not Applicable  IMDG Class  IMDG Subsidiary Ha  Not Applicable  Not Applicable  EMS Number  Special provisions

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable Not A	Applicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
	Classification code Special provisions	Not Applicable  Not Applicable
14.6. Special precautions for user	Limited quantity	Not Applicable
usei	Equipment required	Not Applicable
	Fire cones number	Not Applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
p-tert-octylphenol ethoxylate	Not Available
isothiazolinones, mixed	Not Available
sodium fluoride	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
p-tert-octylphenol ethoxylate	Not Available
isothiazolinones, mixed	Not Available
sodium fluoride	Not Available

#### **SECTION 15 Regulatory information**

#### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

#### p-tert-octylphenol ethoxylate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Proposals to identify Substances of Very High Concern: Annex XV reports for commenting by Interested Parties previous consultation

Europe European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

Europe Regulation (EC) No 1907/2006 - Annex XIV List of Substances Subject to Authorisation

#### isothiazolinones, mixed is found on the following regulatory lists

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

#### sodium fluoride is found on the following regulatory lists

EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Issue Date: 02/09/2024

Print Date: 21/09/2024

Page 10 of 11

Version No: 2.1 Print Date: 21/09/2024 Lysis Buffer B

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic Netherlands Occupational Exposure Limits

#### **Additional Regulatory Information**

Not Applicable

Chemwatch: 5697-25

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

#### Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	No (isothiazolinones, mixed)
Canada - DSL	Yes
Canada - NDSL	No (p-tert-octylphenol ethoxylate; isothiazolinones, mixed; sodium fluoride)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (p-tert-octylphenol ethoxylate; isothiazolinones, mixed)
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (isothiazolinones, mixed)
Taiwan - TCSI	Yes
Mexico - INSQ	No (p-tert-octylphenol ethoxylate; isothiazolinones, mixed)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	02/09/2024
Initial Date	02/09/2024

#### Full text Risk and Hazard codes

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer

Issue Date: 02/09/2024

Chemwatch: 5697-25 Page 11 of 11

Lysis Buffer B

Issue Date: 02/09/2024 Version No: 2.1 Print Date: 21/09/2024

- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
   ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Serious Eye Damage/Eye Irritation Category 2, H319	Minimum classification
, EUH208	Calculation method

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.



# **Supplement B**

# TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: **5697-23**Version No: **2.1**Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **02/09/2024**Print Date: **21/09/2024**S.REACH.NLD.EN.E

#### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### 1.1. Product Identifier

The Foundation of the Francisco Control of the	
Product name	Supplement B
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

#### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	TGR BioSciences Pty Ltd (an Abcam Company)
Address	Unit 3-4, 31 George Street Thebarton SA 5031 Australia
Telephone	+61 08 7228 2141
Fax	Not Available
Website	www.tgrbiosciences.com
Email	ADE.info@abcam.com

#### 1.4. Emergency telephone number

<u>-</u> go, to op		· <del>·····</del>
	Association / Organisation	Chemtrec Aus/North America/Revvity
	Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)
	Other emergency telephone numbers	+1703-527-3887/+31505445971

#### **SECTION 2 Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	H319 - Serious Eye Damage/Eye Irritation Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

# Hazard statement(s)

riazaru staternent(s)	
H319	Causes serious eye irritation.

Chemwatch: 5697-23 Page 2 of 11

Supplement B

Issue Date: 02/09/2024 Version No: 2.1 Print Date: 21/09/2024

EUH208	Contains .	. May produce	e an allergic reaction
--------	------------	---------------	------------------------

#### Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

Material contains sodium lauryl sulfate, isothiazolinones, mixed.

#### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

#### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 151-21-3 2.205-788-1 3.Not Available 4.Not Available	<5	sodium lauryl sulfate	Flammable Solids Category 1, Acute Toxicity (Oral, Dermal and Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3; H228, H302+H312+H332, H315, H318, H335 [1]	SCL: Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available
1. 55965-84-9 2.Not Available 3.613-167-00-5 4.Not Available	<0.01	<u>isothiazolinones,</u> <u>mixed</u>	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H314, H317, H318, H330, H400, H410 [2]	Skin Corr. 1C; H314: C ≥ 0,6 %   Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %   Eye Dam. 1; H318: C ≥ 0,6 %   Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %   Skin Sens. 1A; H317: C ≥ 0,0015 %   M=100   M=100   Acute M factor: 100 Chronic M factor: 100	Not Available
Not Available	balance	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend:	Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties				

#### **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

4.1. Description of mist and measures		
Eye Contact  Eye Contact  Eye Contact  Figure Complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lupper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.	
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>	
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

Supplement B

Issue Date: **02/09/2024**Print Date: **21/09/2024** 

Treat symptomatically.

Version No: 2.1

#### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

▶ foam.

#### 5.2. Special hazards arising from the substrate or mixture

5.2. Special nazards arising from the substrate or mixture		
Fire Incompatibility	None known.	
5.3. Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>	
	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> </ul>	
Fire/Explosion Hazard	Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) nitrogen oxides (NOx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material.	

#### **SECTION 6 Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Minor Spills  Minor Spills  Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite.	
Major Spills	Moderate hazard.  ► Clear area of personnel and move upwind.  ► Alert Fire Brigade and tell them location and nature of hazard.  ► Wear breathing apparatus plus protective gloves.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

The state of the s		
Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>	
Fire and explosion protection	See section 5	
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>	

#### 7.2. Conditions for safe storage, including any incompatibilities

· · oonamono for one go, metaamig any moompanamoo		
Suitable container	Plastic tube or Plastic Bottle  Polyethylene or polypropylene container.  Packing as recommended by manufacturer.  Check all containers are clearly labelled and free from leaks.	
Storage incompatibility	None known	
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available	
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available	

Issue Date: **02/09/2024**Print Date: **21/09/2024** 

#### 7.3. Specific end use(s)

See section 1.2

#### SECTION 8 Exposure controls / personal protection

#### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
sodium lauryl sulfate	Dermal 0.625 mg/kg bw/day (Systemic, Chronic) Inhalation 1.102 mg/m³ (Systemic, Chronic) Dermal 0.312 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.000272 mg/m³ (Systemic, Chronic) * Oral 0.156 mg/kg bw/day (Systemic, Chronic) *	0.012 mg/L (Water (Fresh)) 0.013 mg/L (Water - Intermittent release) 0.001 mg/L (Water (Marine)) 0.179 mg/kg sediment dw (Sediment (Fresh Water)) 0.018 mg/kg sediment dw (Sediment (Marine)) 0.028 mg/kg soil dw (Soil) 1.35 mg/L (STP)
isothiazolinones, mixed	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	0.00339 mg/L (Water (Fresh)) 0.00339 mg/L (Water - Intermittent release) 0.00339 mg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 0.23 mg/L (STP)

<sup>\*</sup> Values for General Population

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

#### Not Applicable

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2		TEEL-3
sodium lauryl sulfate	3.9 mg/m3	43 mg/m3		260 mg/m3
Ingredient	Original IDLH		Revised IDLH	
sodium lauryl sulfate	Not Available		Not Available	
isothiazolinones mixed	Not Available		Not Available	

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
sodium lauryl sulfate	E	≤ 0.01 mg/m³		
isothiazolinones, mixed	E	≤ 0.1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

#### 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

# 8.2.2. Individual protection measures, such as personal protective equipment











## Eye and face protection

- ▶ Safety glasses with side shields
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

#### See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

#### l No

- ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Hands/feet protection

   Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

  The selection of quitable gloves does not only depend on the meterial, but also an further marks of quality.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

# Body protection

otection See Other protection below

#### Other protection

Overalls.

Supplement B

Issue Date: 02/09/2024 Print Date: 21/09/2024

- P.V.C apron.
- Barrier cream.
- ▶ Skin cleansing cream.

#### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which  $case, \ cartridges \ can \ be \ used \ for \ 4 \ hr. \ Used \ cartridges \ should \ be \ discarded \ daily, \ regardless \ of \ the \ length \ of \ time \ used$

#### 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

#### **SECTION 11 Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

occupational setting.

Not normally a hazard due to non-volatile nature of product The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an

Chemwatch: **5697-23**Version No: **2.1** 

**Acute Toxicity** 

Skin Irritation/Corrosion

### Supplement B

Issue Date: **02/09/2024**Print Date: **21/09/2024** 

Ingestion	Considered an unlikely route of entry in commercial/industrial environments  The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models).  Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.	
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.	
Eye	This material can cause eye irritation and damage in some persons.	
Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.  There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.	
	TOXICITY	IRRITATION
Supplement B	Not Available	Not Available
	TOXICITY	IRRITATION
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit):100 mg/24 hr-moderate
	Oral (Rat) LD50: 1288 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
codium laurul culfato	Oral (Nat) EB30. 1200 Hig/kg	Eye: adverse effect observed (irreversible damage)
sodium lauryl sulfate		Skin (human): 25 mg/24 hr - mild
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>
		Skin: adverse effect observed (csrtssive)
	TOXICITY	IRRITATION
	dermal (rat) LD50: >1008 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
isothiazolinones, mixed	Inhalation (Rat) LC50: 0.171 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>
	Oral (Rat) LD50: 53 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>
	specified data extracted from RTECS - Register of Toxic Effect of chell	
SODIUM LAURYL SULFATE	Eye (None) None: None None rabbit None 250 ugSkin (rabbit):25 mg/24 hr-moderate Skin (None) None: None rabbit None 50 mg/24Eye (rabbit) 10: mg- Based on laboratory and animal testing, exposure to the material may result in irreversible effects and mutations in humans. Alkyl sulfates are irritating to the skin, harmful if swallowed and at risk of causing serious damage to the eyes. They are metabolised by the liver and excreted via urine. They produce dose-dependent toxicity depending on their structure. They do not cause cancer, reproductive or genetic defects. For alkyl sulfates; alkane sulfonates and alpha-olefin sulfonates Most chemicals of this category are not defined substances, but mixtures of homologues with different alkyl side chains. Common physical and/or biological pathways result in structurally similar breakdown products, and are, together with the surfactant properties, responsible for similar environmental behavior and essentially identical hazard profiles with regard to human health. Acute toxicity: These substances are well absorbed after ingestion; penetration through the skin is however, poor. After absorption, these chemicals are distributed mainly to the liver. In animals, signs of poisoning by mouth include lethargy, hair standing up, decreased motor activity and breathing rate, and diarrhea. Poisoning from skin contact caused irritation, tremor, tonic-clonic convulsions, breathing failure, and weight loss.	
ISOTHIAZOLINONES, MIXED	The following information refers to contact allergens as a group and may not be specific to this product.  Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.  In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.  Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-professional users. No significant acute toxicological data identified in literature search.  Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations cont	
SODIUM LAURYL SULFATE & ISOTHIAZOLINONES, MIXED	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.	
	·	

Carcinogenicity

Reproductivity

Page **7** of **11** Chemwatch: 5697-23 Version No: 2.1

Supplement B

Issue Date: 02/09/2024 Print Date: 21/09/2024

Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	X	Aspiration Hazard	×

 X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification Legend:

#### 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

### **SECTION 12 Ecological information**

### 12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Supplement B	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	4.8mg/l	2
	EC50	48h	Crustacea	0.939mg/l	1
sodium lauryl sulfate	LC50	96h	Fish	0.59mg/L	4
	EC0(ECx)	72h	Algae or other aquatic plants	30mg/l	1
	EC50	96h	Algae or other aquatic plants	0.4- 3.7mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.006mg/L	2
	EC50	48h	Crustacea	0.007mg/l	2
isothiazolinones, mixed	LC50	96h	Fish	0.129mg/l	2
	EC50	96h	Algae or other aquatic plants	0.036mg/L	2
				<0.001mg/L	2

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium lauryl sulfate	HIGH	HIGH

### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
sodium lauryl sulfate	LOW (BCF = 7.15)

### 12.4. Mobility in soil

Ingredient	Mobility
sodium lauryl sulfate	LOW (Log KOC = 10220)

### 12.5. Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			
vPvB			No

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature

### 12.7. Other adverse effects

Page 8 of 11

Chemwatch: 5697-23 Version No: 2.1

Issue Date: 02/09/2024 Print Date: 21/09/2024 Supplement B

No evidence of ozone depleting properties were found in the current literature.

### **SECTION 13 Disposal considerations**

13.1. Was	ste treatmen	t methods
-----------	--------------	-----------

Total Madio Madiation Madiada	
Product / Packaging disposal	Consult State Land Waste Management Authority for disposal.
Waste treatment options	Not Available
Sewage disposal options	Not Available

### **SECTION 14 Transport information**

### **Labels Required**

Marine Pollutant	NO

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS				
14.1.	UN number or ID number	Not Applicable		
14.2.	UN proper shipping name	Not Applicable		
14.3.	. Transport hazard class(es)	Class	Not Applic	cable
		Subsidiary Hazard	Not Applic	cable
14.4.	Packing group	Not Applicable		
14.5.	Environmental hazard	Not Applicable		
	Special precautions for user	Hazard identification	(Kemler)	Not Applicable
		Classification code		Not Applicable
14.6.		Hazard Label		Not Applicable
		Special provisions		Not Applicable
		Limited quantity		Not Applicable
		Tunnel Restriction Co	ode	Not Applicable

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class	Not Applicable		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
5.005(00)	ERG Code Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
450.	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Ma	aximum Qty / Pack	Not Applicable	

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sou Manager (IIII 2 Court Corporation Not Not Not Not Not Not Of State Lives Corporation Court Corporation Court Corporation Corporation Court Corporation Court Corporation C			
14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard	IMDG Class	Not Applicable	
class(es)	IMDG Subsidiary Hazard	Not Applicable	
14.4. Packing group	Not Applicable		
14.5 Environmental hazard	Not Applicable		
	EMS Number Not	t Applicable	
14.6. Special precautions for user	Special provisions Not	t Applicable	
400.	Limited Quantities Not	t Applicable	

Chemwatch: 5697-23 Version No: 2.1

Supplement B

Issue Date: **02/09/2024**Print Date: **21/09/2024** 

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Not Applicable Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Classification code Not Ap	pplicable	
	Special provisions Not Ap	pplicable	
14.6. Special precautions for user	Limited quantity Not Ap	pplicable	
	Equipment required Not Ap	pplicable	
	Fire cones number Not Ap	pplicable	

### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium lauryl sulfate	Not Available
isothiazolinones, mixed	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium lauryl sulfate	Not Available
isothiazolinones, mixed	Not Available

### **SECTION 15 Regulatory information**

### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

### sodium lauryl sulfate is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

#### isothiazolinones, mixed is found on the following regulatory lists

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

### **Additional Regulatory Information**

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### Information according to 2012/18/EU (Seveso III):

Seveso Category	Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### **National Inventory Status**

National inventory Status		
National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	No (isothiazolinones, mixed)	
Canada - DSL	Yes	
Canada - NDSL	No (isothiazolinones, mixed)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (isothiazolinones, mixed)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	No (isothiazolinones, mixed)	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (isothiazolinones, mixed)	
Vietnam - NCI	Yes	

Supplement B

National Inventory	Status
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	02/09/2024
Initial Date	02/09/2024

#### Full text Risk and Hazard codes

H228	Flammable solid.	
H301	Toxic if swallowed.	
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.	
H310	Fatal in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
Н335	May cause respiratory irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
   IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- ▶ AllC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ► EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Serious Eye Damage/Eye	Minimum classification

Issue Date: 02/09/2024

Print Date: 21/09/2024

Chemwatch: 5697-23 Page 11 of 11 Issue Date: 02/09/2024 Version No: 2.1 Print Date: 21/09/2024

Supplement B

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Irritation Category 2, H319	
, EUH208	Calculation method

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.



# Reaction Buffer 1 - Ultra TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: **5555-14**Version No: **4.1**Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **25/10/2022**Print Date: **21/09/2024**S.REACH.NLD.EN.E

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

1	1	Produ	ct Ida	ntifior
1	- 1 -	Produ	cr ioe	ntiller

T.T. I TOUGOT IGCITATION				
Product name	Reaction Buffer 1 - Ultra			
Chemical Name	ot Applicable			
Synonyms	Reaction Buffer 1 - MPSU; Reaction Buffer 2 – Ultra; Reaction Buffer 2 & Reaction Buffer 3 - MPSU			
Chemical formula	Not Applicable			
Other means of identification	Reaction Buffer 1 - MPSU, Reaction Buffer 2 - Ultra, Reaction Buffer 2 - MPSU, Reaction Buffer 3 - MPSU			

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.			
Uses advised against	No specific uses advised against are identified.			

### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	TGR BioSciences Pty Ltd (an Abcam Company)			
Address	nit 3-4, 31 George Street Thebarton SA 5031 Australia			
Telephone	1 08 7228 2141			
Fax	Not Available			
Website	www.tgrbiosciences.com			
Email	ADE.info@abcam.com			

### 1.4. Emergency telephone number

Association / Organisation	Chemtrec Aus/North America/Revvity		
Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)		
Other emergency telephone numbers	+1703-527-3887/+31505445971		

#### **SECTION 2 Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	Non hazardous	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		

### 2.2. Label elements

Hazard pictogram(s)	Not Applicable	
Signal word	Not Applicable	

### Hazard statement(s)

Not Applicable

#### Supplementary statement(s)

ouppromontally officerity		
EUH208	EUH208 Contains CMIT/MIT 3:1. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

Chemwatch: 5555-14 Page 2 of 10 Issue Date: 25/10/2022

Version No: 4.1 Print Date: 21/09/2024

#### Reaction Buffer 1 - Ultra

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material contains isothiazolinones, mixed.

#### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 55965-84-9 2.Not Available 3.613-167-00-5 4.Not Available	<0.01	isothiazolinones. mixed	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H314, H317, H318, H330, H400, H410 [2]	Skin Corr. 1C; H314: C ≥ 0,6 %   Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %   Eye Dam. 1; H318: C ≥ 0,6 %   Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %   Skin Sens. 1A; H317: C ≥ 0,0015 %   M=100   M=100   Acute M factor: 100 Chronic M factor: 100	Not Available
Not Available	balance	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend:	Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties				

### **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

foam.

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Chemwatch: 5555-14 Page 3 of 10 Version No: 4.1

#### Reaction Buffer 1 - Ultra

Issue Date: 25/10/2022 Print Date: 21/09/2024

#### 5.3. Advice for firefighters

Fire Fighting	<ul> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Do not approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposition may produce toxic fumes of: carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>

### **SECTION 6 Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>	
Major Spills	Minor hazard.  ▶ Clear area of personnel.  ▶ Alert Fire Brigade and tell them location and nature of hazard.  ▶ Control personal contact with the substance, by using protective equipment as required.	

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> </ul>
Fire and explosion protection	See section 5
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Plastic tube or plastic bottle.  Polyethylene or polypropylene container.  Packing as recommended by manufacturer.  Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

### 7.3. Specific end use(s)

See section 1.2

### SECTION 8 Exposure controls / personal protection

### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment		
isothiazolinones, mixed	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	0.00339 mg/L (Water (Fresh)) 0.00339 mg/L (Water - Intermittent release) 0.00339 mg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 0.23 mg/L (STP)		

Version No: 4.1

#### Reaction Buffer 1 - Ultra

Issue Date: 25/10/2022 Print Date: 21/09/2024

### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

#### Not Applicable

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2		TEEL-3
Reaction Buffer 1 - Ultra	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
isothiazolinones, mixed	Not Available		Not Available	

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
isothiazolinones, mixed	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### 8.2.2. Individual protection measures, such as personal protective equipment









#### Eye and face protection

#### Safety glasses with side shields

- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

### Skin protection

See Hand protection below

#### Hands/feet protection

▶ Wear general protective gloves, eg. light weight rubber gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice Personal hygiene is a key element of effective hand care.

### **Body protection**

See Other protection below

### Other protection

No special equipment needed when handling small quantities. OTHERWISE:

- Overalls.
- Barrier cream. Evewash unit.

Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

#### 8.2.3. Environmental exposure controls

See section 12

### **SECTION 9 Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable

<sup>\*</sup> Values for General Population

Page 5 of 10 Version No: 4.1

### Reaction Buffer 1 - Ultra

Issue Date: 25/10/2022 Print Date: 21/09/2024

Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

#### **SECTION 10 Stability and reactivity**

	La
10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

### **SECTION 11 Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.			
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Long-term exposure to the product is not thought to proc animal models); nevertheless exposure by all routes sho	luce chronic effects adverse to the health (as classified by EC Directives using uld be minimised as a matter of course.		
D # 1 111	тохісіту	IRRITATION		
Reaction Buffer 1 - Ultra	Not Available	Not Available		
	тохісіту	IRRITATION		
	dermal (rat) LD50: >1008 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>		
isothiazolinones, mixed	Inhalation (Rat) LC50: 0.171 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
	Oral (Rat) LD50: 53 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>		
Leaend:	1 Value obtained from Europe ECHA Pogistered Subst	ances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise		

#### ISOTHIAZOLINONES, MIXED

The following information refers to contact allergens as a group and may not be specific to this product.

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.

Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by nonprofessional users. No significant acute toxicological data identified in literature search.

Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it

Chemwatch: 5555-14 Page 6 of 10 Version No: 4.1

Issue Date: 25/10/2022 Print Date: 21/09/2024 Reaction Buffer 1 - Ultra

disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations containing amines.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic

condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

- Data either not available or does not fill the criteria for classification

- Data available to make classification

#### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

#### **SECTION 12 Ecological information**

#### 12.1. Toxicity

	Endpoint Test Duration (hr)		Species	Value	Source
Reaction Buffer 1 - Ultra	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.006mg/L	2
	EC50	48h	Crustacea	0.007mg/l	2
isothiazolinones, mixed	LC50	96h	Fish	0.129mg/l	2
	EC50	96h	Algae or other aquatic plants	0.036mg/L	2
	NOEC(ECx)	48h	Algae or other aquatic plants	<0.001mg/L	2
Legend:			CHA Registered Substances - Ecotoxicological Inform C Aquatic Hazard Assessment Data 6. NITE (Japan) -		

### 12.2. Persistence and degradability

	•			
Ingredient		Persistence: Water/Soil	Persistence: Air	
		No Data available for all ingredients	No Data available for all ingredients	

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

#### 12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### 12.5. Results of PBT and vPvB assessment

	P	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	X	×	×	
PBT vPvB	×	×	×	
PBT Criteria fulfilled?			No	
vPvB	No			

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature

Chemwatch: 5555-14

Reaction Buffer 1 - Ultra

Page **7** of **10** Issue Date: 25/10/2022 Print Date: 21/09/2024

#### 12.7. Other adverse effects

Version No: 4.1

No evidence of ozone depleting properties were found in the current literature.

### **SECTION 13 Disposal considerations**

### 13.1. Waste treatment methods

Product / Packaging disposal	Consult State Land Waste Management Authority for disposal.		
Waste treatment options	Not Available		
Sewage disposal options	Not Available		

### **SECTION 14 Transport information**

### **Labels Required**

Marine Pollutant	NO

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1.	UN number or ID number	Not Applicable			
14.2.	UN proper shipping name	Not Applicable			
14.3.	14.3. Transport hazard class(es)	Class	Not Appl	olicable	
		Subsidiary Hazard	Not Appl	licable	
14.4.	Packing group	Not Applicable			
14.5.	Environmental hazard	Not Applicable			
		Hazard identification	(Kemler)	Not Applicable	
		Classification code		Not Applicable	
14.6.	Special precautions for	Hazard Label		Not Applicable	
	user	Special provisions		Not Applicable	
		Limited quantity		Not Applicable	
		Tunnel Restriction C	ode	Not Applicable	

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. <b>UN nu</b> i	mber	Not Applicable			
14.2. UN pro name	oper shipping	Not Applicable			
440 =		ICAO/IATA Class Not Applicable			
14.3. Transp class(e		ICAO / IATA Subsidiary Hazard	Not Applicable		
	,	ERG Code	Not Applicable		
14.4. Packin	ng group	Not Applicable			
14.5. <b>Enviro</b>	nmental hazard	Not Applicable			
		Special provisions		Not Applicable	
		Cargo Only Packing Instructions		Not Applicable	
		Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Specia user	al precautions for	Passenger and Cargo Packing In	structions	Not Applicable	
usei	usei	Passenger and Cargo Maximum	Qty / Pack	Not Applicable	
		Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
		Passenger and Cargo Limited Ma	aximum Qty / Pack	Not Applicable	

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	IMDG Class Not Applicable IMDG Subsidiary Hazard Not Applicable			
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Not Applicable			
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable			

Chemwatch: 5555-14 Version No: 4.1

Reaction Buffer 1 - Ultra

Page 8 of 10 Issue Date: 25/10/2022 Print Date: 21/09/2024

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable					
14.2. UN proper shipping name	Not Applicable					
14.3. Transport hazard class(es)	Not Applicable Not Applicable					
14.4. Packing group	Not Applicable					
14.5. Environmental hazard	Not Applicable					
	Classification code	Not Applicable				
	Special provisions	Not Applicable				
14.6. Special precautions for user	Limited quantity	Not Applicable				
	Equipment required	Not Applicable				
	Fire cones number	Not Applicable				

### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
isothiazolinones, mixed	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
isothiazolinones, mixed	Not Available

### **SECTION 15 Regulatory information**

#### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

#### isothiazolinones, mixed is found on the following regulatory lists

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

### Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available		
	Seveso Category	Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	No (isothiazolinones, mixed)
Canada - DSL	Yes
Canada - NDSL	No (isothiazolinones, mixed)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (isothiazolinones, mixed)
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (isothiazolinones, mixed)
Taiwan - TCSI	Yes
Mexico - INSQ	No (isothiazolinones, mixed)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Version No: 4.1

#### Reaction Buffer 1 - Ultra

Issue Date: 25/10/2022 Print Date: 21/09/2024

Revision Date	25/10/2022
Initial Date	12/07/2022

#### Full text Risk and Hazard codes

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	19/07/2022	Name
4.1	25/10/2022	Disposal considerations - Disposal, Handling and storage - Storage (storage incompatibility), Identification of the substance / mixture and of the company / undertaking - Synonyms

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists

- STEL: Short Term Exposure Limit
   TEEL: Temporary Emergency Exposure Limit,
   IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
   EINECS: European Inventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ► NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
, EUH208	Calculation method
, EUH210	Calculation method

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

Chemwatch: **5555-14**Version No: **4.1** 

Page **10** of **10** 

Reaction Buffer 1 - Ultra

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

TEL (+61 3) 9572 4700.



## AlphaLISA CaptSure™ Acceptor Beads (2mg/mL) TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: **5555-20**Version No: **3.1**Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **25/10/2022** Print Date: **21/09/2024** S.REACH.NLD.EN.E

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

1	1 1	Dr.	~	li i	cŧ	ы	۵n	tifi	۵r

Product name	AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)	
Chemical Name Not Applicable		
Synonyms	Alpha 615 CaptSure™ Acceptor Beads (2mg/mL) _ Multiplex; Alpha 545 CaptSure2™ Acceptor Beads (2mg/mL) _ Multiplex; Alpha 615 anti-p-AKT(1/2/3) (Ser473) (mlgG1) Acceptor Beads; Alpha 615 anti-p-ERK (mlgG1) Acceptor Beads	
Chemical formula	Not Applicable	
Other means of identification	Alpha 545 CaptSure2 Acceptor Beads (2mg/mL)_MPSU, Alpha 615 CaptSure Acceptor Beads (2mg/mL)_MPSU	

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

#### 1.3. Details of the manufacturer or supplier of the safety data sheet

The state of the s		
Registered company name	name TGR BioSciences Pty Ltd (an Abcam Company)	
Address	Address Unit 3-4, 31 George Street Thebarton SA 5031 Australia	
Telephone	r61 08 7228 2141	
Fax	Not Available	
Website	www.tgrbiosciences.com	
Email	ADE.info@abcam.com	

### 1.4. Emergency telephone number

Association / Organisation	Chemtrec Aus/North America/Revvity
Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)
Other emergency telephone numbers	+1703-527-3887/+31505445971

### **SECTION 2 Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	Non hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### 2.2. Label elements

2.2. Label elements	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

#### Hazard statement(s)

Not Applicable

### Supplementary statement(s)

EUH208	Contains CMIT/MIT 3:1. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

Chemwatch: **5555-20** Page **2** of **10** 

AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

#### Precautionary statement(s) Prevention

Not Applicable

Version No: 3.1

#### Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material contains isothiazolinones, mixed,

#### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 55965-84-9 2.Not Available 3.613-167-00-5 4.Not Available	<0.01	isothiazolinones, mixed	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H314, H317, H318, H330, H400, H410 [2]	Skin Corr. 1C; H314: C ≥ 0,6 %   Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %   Eye Dam. 1; H318: C ≥ 0,6 %   Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %   Skin Sens. 1A; H317: C ≥ 0,0015 %   M=100   M=100  Acute M factor: 100  Chronic M factor: 100	Not Available
Not Available	balance	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties				

### **SECTION 4 First aid measures**

### 4.1. Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  ▶ Flush skin and hair with running water (and soap if available).  ▶ Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

### 5.3. Advice for firefighters

Fire Fighting

▶ Alert Fire Brigade and tell them location and nature of hazard.

Chemwatch: **5555-20** Page **3** of **10** 

Version No: 3.1

### AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

	<ul> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul>

#### **SECTION 6 Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

### 6.3. Methods and material for containment and cleaning up

<u> </u>					
Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety glasses.</li> <li>Use dry clean up procedures and avoid generating dust.</li> </ul>				
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>Prevent spillage from entering drains, sewers or water courses.</li> </ul>				

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> </ul>	
Fire and explosion protection	See section 5	
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>	

### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Brown tube or bottle.  Lined metal can, lined metal pail/ can.  Plastic pail.  Polyliner drum.  Packing as recommended by manufacturer.
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

### 7.3. Specific end use(s)

See section 1.2

### SECTION 8 Exposure controls / personal protection

### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment		
isothiazolinones, mixed	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	0.00339 mg/L (Water (Fresh)) 0.00339 mg/L (Water - Intermittent release) 0.00339 mg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 0.23 mg/L (STP)		

<sup>\*</sup> Values for General Population

### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Chemwatch: 5555-20 Page 4 of 10 Issue Date: 25/10/2022 Version No: 3.1 Print Date: 21/09/2024

### AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Not Applicable

#### **Emergency Limits**

Ingredient	TEEL-1 TEEL-2			TEEL-3
AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
isothiazolinones, mixed	Not Available		Not Available	

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
isothiazolinones, mixed	E ≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### 8.2.2. Individual protection measures, such as personal protective equipment









### Eye and face protection

- Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

### Skin protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed

### Hands/feet protection

when making a final choice. Personal hygiene is a key element of effective hand care.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene.
- nitrile rubber.
- butyl rubber

## **Body protection**

See Other protection below

#### Other protection

No special equipment needed when handling small quantities. OTHERWISE:

Overalls.

- Barrier cream.
  - Evewash unit

### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures
- · The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option)
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- · Try to avoid creating dust conditions.

### 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	White Lyophilysed pellet.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available

Version No: **3.1** 

### AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

### **SECTION 11 Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.  If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.  Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.		
AlphaLISA CaptSure™	тохісіту	IRRITATION	
Acceptor Beads (2mg/mL)	Not Available	Not Available	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >1008 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	
isothiazolinones, mixed	Inhalation (Rat) LC50: 0.171 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
	Oral (Rat) LD50: 53 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>	

Chemwatch: **5555-20** Page **6** of **10** 

Version No. 3.1

#### AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.

Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-professional users.

#### ISOTHIAZOLINONES, MIXED

Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations containing amines.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

AlphaLISA CaptSure™ Acceptor Beads (2mg/mL) & ISOTHIAZOLINONES, MIXED

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

💢 – Data either not available or does not fill the criteria for classification

Data available to make classification

### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 11.2.2. Other information

See Section 11.1

#### **SECTION 12 Ecological information**

### 12.1. Toxicity

AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
isothiazolinones, mixed	EC50	72h	Algae or other aquatic plants	0.006mg/L	2
	EC50	48h	Crustacea	0.007mg/l	2
	LC50	96h	Fish	0.129mg/l	2
	EC50	96h	Algae or other aquatic plants	0.036mg/L	2
	NOEC(ECx)	48h	Algae or other aquatic plants	<0.001mg/L	2
Legend:	Ecotox databas	,	A Registered Substances - Ecotoxicological Inform quatic Hazard Assessment Data 6. NITE (Japan) -	, ,	

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	

### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation	
	No Data available for all ingredients	

### 12.4. Mobility in soil

Chemwatch: **5555-20**Version No: **3.1** 

### AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

Ingredient	Mobility	Mobility			
	No Data available for all ingred	No Data available for all ingredients			
2.5. Results of PBT and vi	PvB assessment				
	Р	В	Т		
Relevant available data	Not Available	Not Available	Not Availab	Not Available	
PBT	×	×	×		
vPvB	×	x x			
PBT Criteria fulfilled?					
vPvB			No		

#### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

### **SECTION 13 Disposal considerations**

### 13.1. Waste treatment methods

Product / Packaging disposal	Consult State Land Waste Management Authority for disposal.	
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

### **SECTION 14 Transport information**

### **Labels Required**

Marine Pollutant	NO

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)		ot Applicable ot Applicable	
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Hazard identification (Ken		
	Classification code	Not Applicable	
14.6. Special precautions for user	Hazard Label	Not Applicable	
	Special provisions	Not Applicable	
	Limited quantity	Not Applicable	
	Tunnel Restriction Code	Not Applicable	

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

All transport (10/10 1/1/1/ BOIL	:): NOT REGULATED FOR TRANS	DI OILI OI DAINGEROOG	ОООРО	
14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class	Not Applicable		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Hazard Not Applicable		
01400(00)	ERG Code	Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
4001	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

Chemwatch: **5555-20**Version No: **3.1** 

AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard	IMDG Class	Not Applicable
class(es)	IMDG Subsidiary Hazard	Not Applicable
14.4. Packing group	Not Applicable	
14.5 Environmental hazard	Not Applicable	
	EMS Number Not A	pplicable
14.6. Special precautions for user	Special provisions Not A	pplicable
	Limited Quantities Not A	pplicable
14.5 Environmental hazard  14.6. Special precautions for	Not Applicable  EMS Number Not A  Special provisions Not A	pplicable

### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Not Applicable	
Not Applicable	
Not Applicable Not Applicable	
Not Applicable	
Not Applicable	
Classification code	Not Applicable  Not Applicable
Limited quantity	Not Applicable  Not Applicable
Equipment required	Not Applicable
Fire cones number	Not Applicable
	Not Applicable  Not Applicable  Not Applicable  Classification code  Special provisions  Limited quantity  Equipment required

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
isothiazolinones, mixed	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
isothiazolinones, mixed	Not Available

### **SECTION 15 Regulatory information**

#### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

### isothiazolinones, mixed is found on the following regulatory lists

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

### **Additional Regulatory Information**

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### Information according to 2012/18/EU (Seveso III):

_	
Seveso Category	Not Available

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

•	
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	No (isothiazolinones, mixed)
Canada - DSL	Yes
Canada - NDSL	No (isothiazolinones, mixed)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (isothiazolinones, mixed)

Chemwatch: 5555-20

AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Page 9 of 10 Issue Date: 25/10/2022 Print Date: 21/09/2024

National Inventory	Status
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (isothiazolinones, mixed)
Taiwan - TCSI	Yes
Mexico - INSQ	No (isothiazolinones, mixed)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Version No: 3.1

Revision Date	25/10/2022
Initial Date	13/07/2022

#### Full text Risk and Hazard codes

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	25/10/2022	Disposal considerations - Disposal, Handling and storage - Storage (storage incompatibility)

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ► TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ► ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act

Chemwatch: 5555-20 Page 10 of 10 Issue Date: 25/10/2022 Version No: 3.1

### AlphaLISA CaptSure™ Acceptor Beads (2mg/mL)

Print Date: 21/09/2024

- TCSI: Taiwan Chemical Substance Inventory
   INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
  FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.



## Alpha Streptavidin Donor Beads (2mg/mL) TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: 5555-08 Version No: 4.1 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Issue Date: **25/10/2022**Print Date: **21/09/2024**S.REACH.NLD.EN.E

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### 1.1. Product Identifier

Product name	Alpha Streptavidin Donor Beads (2mg/mL)	
Chemical Name	Not Applicable	
Synonyms	Not Available	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	TGR BioSciences Pty Ltd (an Abcam Company)	
Address	Unit 3-4, 31 George Street Thebarton SA 5031 Australia	
Telephone	61 08 7228 2141	
Fax	Not Available	
Website	www.tgrbiosciences.com	
Email	ADE.info@abcam.com	

#### 1.4. Emergency telephone number

The Lines general transport		
Association / Organisation	Chemtrec Aus/North America/Revvity	
Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)	
Other emergency telephone numbers	+1703-527-3887/+31505445971	

#### **SECTION 2 Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	Non hazardous	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

### 2.2. Label elements

z.z. Edder cicines		
Hazard pictogram(s)	Not Applicable	
Signal word	Not Applicable	

### Hazard statement(s)

Not Applicable

### Supplementary statement(s)

Not Applicable

### Precautionary statement(s) Prevention

Not Applicable

Chemwatch: **5555-08** Page **2** of **8** 

Alpha Streptavidin Donor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

#### Precautionary statement(s) Response

Not Applicable

Version No: 4.1

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material does not contain any CLP Article 18 substances.

#### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

#### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M- Factor	Nanoform Particle Characteristics
Not Available	100	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties			ation drawn from C&L * EU	

#### **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

▶ foam.

5

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.		
5.3. Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>		

#### Fire/Explosion Hazard

▶ The material is not readily combustible under normal conditions.

▶ However, it will break down under fire conditions and the organic component may burn.

Not considered to be a significant fire risk.

▶ Heat may cause expansion or decomposition with violent rupture of containers.

#### Decomposi

Decomposes on heating and produces toxic fumes of:

carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material.

### Alpha Streptavidin Donor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

### **SECTION 6 Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
Major Spills	Minor hazard.  ► Clear area of personnel.  ► Alert Fire Brigade and tell them location and nature of hazard.  ► Control personal contact with the substance, by using protective equipment as required.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> </ul>	
Fire and explosion protection	See section 5	
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>	

#### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	Brown tube or brown bottle.  Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.	
Storage incompatibility	one known	
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available	
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available	

### 7.3. Specific end use(s)

See section 1.2

### SECTION 8 Exposure controls / personal protection

### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Not Available	Not Available	Not Available

<sup>\*</sup> Values for General Population

### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

### Not Applicable

### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Alpha Streptavidin Donor Beads (2mg/mL)	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
Alpha Streptavidin Donor Beads (2mg/mL)	Not Available		Not Available	

Chemwatch: 5555-08 Page 4 of 8 Issue Date: 25/10/2022 Version No: 4.1

#### Alpha Streptavidin Donor Beads (2mg/mL)

Print Date: 21/09/2024

#### 8.2. Exposure controls

#### Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. 8.2.1. Appropriate The basic types of engineering controls are: engineering controls Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. 8.2.2. Individual protection measures, such as personal protective equipment Safety glasses with side shields Chemical goggles. Eye and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Skin protection See Hand protection below ▶ Wear general protective gloves, eg. light weight rubber gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in Hands/feet protection advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. See Other protection below **Body protection** No special equipment needed when handling small quantities. OTHERWISE: Other protection Overalls. Barrier cream.

#### 8.2.3. Environmental exposure controls

See section 12

### **SECTION 9 Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Eyewash unit.

Appearance	Blue liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2

Chemwatch: **5555-08** Page 5 of 8

Version No: 4.1 Alpha Streptavidin Donor Beads (2mg/mL)

10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

### **SECTION 11 Toxicological information**

11.1. Information on hazard classes as defined in Regulation	(EC) No 1272/2008
--	-------------------

Inhaled	* ·	re of product health effects or irritation of the respiratory tract (as classified by EC Directives using animal requires that exposure be kept to a minimum and that suitable control measures be used in a
Ingestion	The material has <b>NOT</b> been classified by EC D of corroborating animal or human evidence.	Directives or other classification systems as "harmful by ingestion". This is because of the lack
Skin Contact		health effects or skin irritation following contact (as classified by EC Directives using animal requires that exposure be kept to a minimum and that suitable gloves be used in an
Eye	Although the liquid is not thought to be an irrita discomfort characterised by tearing or conjunc	ant (as classified by EC Directives), direct contact with the eye may produce transient tival redness (as with windburn).
Chronic		ght to produce chronic effects adverse to the health (as classified by EC Directives using routes should be minimised as a matter of course.
Alpha Streptavidin Donor	TOXICITY	IRRITATION
Beads (2mg/mL)	Not Available	Not Available
Legend:	Value obtained from Europe ECHA Register     specified data extracted from RTECS - Register	red Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwis er of Toxic Effect of chemical Substances

Alpha Streptavidin Donor Beads (2mg/mL)	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

### 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

### **SECTION 12 Ecological information**

### 12.1. Toxicity

Almha Ctrontovidin Donor	Endpoint	Test Duration (hr)	Species	Value	Source
Alpha Streptavidin Donor Beads (2mg/mL)	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa	n 1. IUCLID Toxicity Data 2. Europe ECHA Regista ase - Aquatic Toxicity Data 5. ECETOC Aquatic Ha concentration Data 8. Vendor Data			

### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

### 12.4. Mobility in soil

Issue Date: 25/10/2022

Print Date: 21/09/2024

Chemwatch: **5555-08**Version No: **4.1** 

### Alpha Streptavidin Donor Beads (2mg/mL)

Issue Date: **25/10/2022** Print Date: **21/09/2024** 

Ingredient	Mobility	Mobility				
	No Data available for all ingred	No Data available for all ingredients				
2.5. Results of PBT and v	PvB assessment					
	P	P B T				
Relevant available data	Not Available	Not Available	Not Available			
PBT	×	×	×			
vPvB	×	×	×			
PBT Criteria fulfilled?	·		No			
vPvB			No			

#### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

### **SECTION 13 Disposal considerations**

### 13.1. Waste treatment methods

Product / Packaging disposal	onsult State Land Waste Management Authority for disposal.		
Waste treatment options	Not Available		
Sewage disposal options	Not Available		

### **SECTION 14 Transport information**

### **Labels Required**

Marine Pollutant	NO

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable				
14.2. UN proper shipping name	Not Applicable				
14.3. Transport hazard class(es)	Class Subsidiary Hazard	Not Appli			
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Not Applicable				
	Hazard identification	(Kemler)	Not Applicable		
	Classification code		Not Applicable		
14.6. Special precautions for user	Hazard Label		Not Applicable		
usei	Special provisions		Not Applicable		
	Limited quantity		Not Applicable		
	Tunnel Restriction Co	ode	Not Applicable		

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

7.11 transport (107to 17ti7t / 201		OF ORT OF PANOLICOU	00000	
14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class Not Applicable			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard Not Applicable			
01033(03)	ERG Code Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
usei	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

Chemwatch: **5555-08**Version No: **4.1** 

Alpha Streptavidin Donor Beads (2mg/mL)

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	Not Applicable		
14.2. UN proper shipping name	Not Applicable	Not Applicable		
14.3. Transport hazard	IMDG Class	Not Applicable		
class(es)	IMDG Subsidiary Ha	azard Not Applicable		
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Not Applicable			
	EMS Number	Not Applicable		
14.6. Special precautions for user	Special provisions	Not Applicable		
	Limited Quantities	Not Applicable		

### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	Not Applicable		
14.2. UN proper shipping name	Not Applicable	Not Applicable		
14.3. Transport hazard class(es)	Not Applicable Not	Not Applicable Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Classification code	Not Applicable		
	Special provisions	Not Applicable		
14.6. Special precautions for user	Limited quantity	Not Applicable		
455	Equipment required	Not Applicable		
	Fire cones number	Not Applicable		
	Fire cones number	Not Applicable		

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group	

### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Product name	Snip Type

### **SECTION 15 Regulatory information**

### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

### Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### Information according to 2012/18/EU (Seveso III):

· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,		
Seveso Category	Not Available		

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Not Available	
Canada - DSL	Not Available	
Canada - NDSL	Not Available	
China - IECSC	Not Available	
Europe - EINEC / ELINCS / NLP	Not Available	
Japan - ENCS	Not Available	
Korea - KECI	Not Available	
New Zealand - NZIoC	Not Available	
Philippines - PICCS	Not Available	

Version No. 4.1

#### Alpha Streptavidin Donor Beads (2mg/mL)

Issue Date: 25/10/2022 Print Date: 21/09/2024

National Inventory	Status
USA - TSCA	Not Available
Taiwan - TCSI	Not Available
Mexico - INSQ	Not Available
Vietnam - NCI	Not Available
Russia - FBEPH	Not Available
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	25/10/2022
Initial Date	12/07/2022

#### Full text Risk and Hazard codes

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	16/08/2022	Name
4.1	25/10/2022	Disposal considerations - Disposal, Handling and storage - Storage (storage incompatibility)

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists

- STEL: Short Term Exposure Limit
   TEEL: Temporary Emergency Exposure Limit,
   IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ► ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.



## Positive Control Lysate - Ultra TGR BioSciences Pty Ltd (an Abcam Company)

Chemwatch: **5555-32**Version No: **4.1**Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **25/10/2022**Print Date: **21/09/2024**S.REACH.NLD.EN.E

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

1	1 1	Dr.	~	li i	cŧ	ы	۵n	tifi	۵r

T.T. T TOGGOT IGCTION	
Product name	Positive Control Lysate - Ultra
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use of Substances/mixtures for Laboratory Research Use Only. Do Not Use for diagnostic, therapeutic or clinical use. Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	TGR BioSciences Pty Ltd (an Abcam Company)
Address	Unit 3-4, 31 George Street Thebarton SA 5031 Australia
Telephone	+61 08 7228 2141
Fax	Not Available
Website	www.tgrbiosciences.com
Email	ADE.info@abcam.com

#### 1.4. Emergency telephone number

an Emolyticophono number	
Association / Organisation	Chemtrec Aus/North America/Revvity
Emergency telephone numbers	+61290372994 (Mon-Fri 8am to 5pm)
Other emergency telephone numbers	+1703-527-3887/+31505445971

#### **SECTION 2 Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	Non hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

### 2.2. Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

### Hazard statement(s)

Not Applicable

#### Supplementary statement(s)

ouppromontally officerity	
EUH208	Contains CMIT/MIT 3:1. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Chemwatch: 5555-32 Page 2 of 10

Issue Date: 25/10/2022 Version No: 4.1 Print Date: 21/09/2024 **Positive Control Lysate - Ultra** 

#### Precautionary statement(s) Prevention

Not Applicable

#### Precautionary statement(s) Response

Not Applicable

### Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

**P501** Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material contains p-tert-octylphenol ethoxylate, isothiazolinones, mixed.

#### 2.3. Other hazards

p-tert-octylphenol ethoxylate	Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation
p-tert-octylphenol ethoxylate	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XIV List of Substances Subject to Authorisation
p-tert-octylphenol ethoxylate	Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and Europe Regulation (EU) 2018/605

### **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 55965-84-9 2.Not Available 3.613-167-00-5 4.Not Available	<0.01	isothiazolinones, mixed	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Skin Corrosion/Irritation Category 1C, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H314, H317, H318, H330, H400, H410 [2]	Skin Corr. 1C; H314: C ≥ 0,6 %   Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %   Eye Dam. 1; H318: C ≥ 0,6 %   Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %   Skin Sens. 1A; H317: C ≥ 0,0015 %   M=100   M=100  Acute M factor: 100  Chronic M factor: 100	Not Available
1. 9002-93-1 2.Not Available 3.Not Available 4.Not Available	>0.1	p-tert-octylphenol ethoxylate [e]	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 2; H302, H315, H318, H411, EUH205 <sup>[1]</sup>	SCL: Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available
Not Available	balance	Ingredients determined not to be hazardous	Not Applicable	Not Applicable	Not Available
Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from Collocutes available; [e] Substance identified as having endocrine disrupting properties					awn from C&L * El

### **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

4.1. Description of first aid mea	4.1. Description of first and measures		
Eye Contact	If this product comes in contact with eyes:  Wash out immediately with water.  If irritation continues, seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact	If skin or hair contact occurs:  ▶ Flush skin and hair with running water (and soap if available).  ▶ Seek medical attention in event of irritation.		
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>		
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>		

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

**Positive Control Lysate - Ultra** 

Issue Date: **25/10/2022** Print Date: **21/09/2024** 

#### 5.1. Extinguishing media

Version No: 4.1

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
5.3. Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul>

### **SECTION 6 Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety glasses.</li> <li>Use dry clean up procedures and avoid generating dust.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>Prevent spillage from entering drains, sewers or water courses.</li> </ul>

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> </ul>	
Fire and explosion protection	See section 5	
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>	

### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

### 7.3. Specific end use(s)

See section 1.2

### SECTION 8 Exposure controls / personal protection

### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
isothiazolinones, mixed	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	0.00339 mg/L (Water (Fresh)) 0.00339 mg/L (Water - Intermittent release) 0.00339 mg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine))

Chemwatch: 5555-32 Page 4 of 10

Positive Control Lysate - Ultra

Issue Date: 25/10/2022 Print Date: 21/09/2024

Ingredient Exposure Pattern Worker Comparing	Ingredient	DNELs Exposure Pattern Worker	PNEのg/kg soil dw (Soil) Cอ๊ก parlin(ลำP)
--	------------	----------------------------------	---

<sup>\*</sup> Values for General Population

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

#### Not Applicable

Version No: 4.1

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2		TEEL-3
Positive Control Lysate - Ultra	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
isothiazolinones, mixed	Not Available		Not Available	
p-tert-octylphenol ethoxylate	Not Available		Not Available	

#### Occupational Exposure Banding

Coodpational Exposure Building				
Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit			
isothiazolinones, mixed	E	≤ 0.1 ppm		
p-tert-octylphenol ethoxylate	E ≤ 0.1 ppm			
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### 8.2.2. Individual protection measures, such as personal protective equipment









### Eye and face protection

- Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

#### Skin protection

#### See Hand protection below

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

### Hands/feet protection

Personal hygiene is a key element of effective hand care.

No special equipment needed when handling small quantities.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene
- nitrile rubber
- butyl rubber.

### Body protection

See Other protection below

#### Other protection

OTHERWISE:

Overalls.

Barrier cream. ▶ Eyewash unit.

### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- · The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- . Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- · Try to avoid creating dust conditions

#### 8.2.3. Environmental exposure controls

Chemwatch: **5555-32**Version No: **4.1** 

Positive Control Lysate - Ultra

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

See section 12

### **SECTION 9 Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance	White Lyophilysed pellet.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

### 9.2. Other information

Not Available

### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

### **SECTION 11 Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Positive Control Lysate -	TOXICITY	IRRITATION
Chronic	animal models); nevertheless exposure by all route	produce chronic effects adverse to the health (as classified by EC Directives using s should be minimised as a matter of course. ly cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.9
Eye	•	(as classified by EC Directives), direct contact with the eye may cause transient redness (as with windburn). Slight abrasive damage may also result.
Skin Contact		Ith effects or skin irritation following contact (as classified by EC Directives using anima ires that exposure be kept to a minimum and that suitable gloves be used in an
Ingestion	The material has <b>NOT</b> been classified by EC Director of corroborating animal or human evidence.	ives or other classification systems as "harmful by ingestion". This is because of the lac
Inhaled	models). Nevertheless, good hygiene practice requoccupational setting. Persons with impaired respiratory function, airway disability if excessive concentrations of particulate If prior damage to the circulatory or nervous system	Ith effects or irritation of the respiratory tract (as classified by EC Directives using animalizes that exposure be kept to a minimum and that suitable control measures be used in diseases and conditions such as emphysema or chronic bronchitis, may incur further are inhaled.  It is has occurred or if kidney damage has been sustained, proper screenings should be urther risk if handling and use of the material result in excessive exposures.

Page 6 of 10 Issue Date: 25/10/2022 Chemwatch: 5555-32 Version No: 4.1 Print Date: 21/09/2024

#### **Positive Control Lysate - Ultra**

	Not Available	Not Available	
	TOXICITY	IRRITATION	
isothiazolinones, mixed	dermal (rat) LD50: >1008 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	
	Inhalation (Rat) LC50: 0.171 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
	Oral (Rat) LD50: 53 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
p-tert-octylphenol ethoxylate	Oral (Rat) LD50: 1800 mg/kg <sup>[2]</sup>	Eye (rabbit): 1 mg - moderate	
		Skin (human): 2 mg/3d -I - mild	
Legend:	Value obtained from Europe ECHA Registered Subst specified data extracted from RTECS - Register of Toxic	tances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise c Effect of chemical Substances	
ISOTHIAZOLINONES, MIXED	The following information refers to contact allergens as a group and may not be specific to this product.  Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.  In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. This aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.  Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-professional users.  Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde releasing preservatives ensures that the level of free formaldehyde where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines cape of causing cancers (nitrosamines) when used in formulations containing amines.  The material may be irritating to the eye, with prolonged contact causing infl		
P-TERT-OCTYLPHENOL ETHOXYLATE	Octoxynols: Octoxynols of various chain lengths as well as octoxynol salts and organic acids function in cosmetics either as surfactants-emulsifying agents, surfactants-cleansing agents, surfactants-olubilizing agents, or surfactants-hydrotropes in a wide variety of cosmetic products at concentrations ranging from 0.0008% to 25%, with most less than 5.0%. The octoxynols are chemically similar to nonoxynols. Long-chain nonoxynols (9 and above) were considered safe as used, whereas short-chain nonoxynols (8 and below) were considered safe as used in rinse-off products and safe at concentrations less than 5% in leave-on formulations. Acute exposure of hamsters to Octoxynol-9 by bronchopulmonary lavage produced pneumonia, pulmonary edema, and intra-alveolar hemorrhage.  Humans have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents and other cleaning products. Exposure to these chemicals can occur through swallowing, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that relatively high volumes would have to occur to produce any toxic response. No death due to poisoning with alcohol ethoxylates has ever been reported.  Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed.		
Positive Control Lysate -	cancer. No adverse reproductive or developmental effec	AS WEIG OUSEIVEU.	

Positive Control Lysate Ultra & ISOTHIAZOLINONES, MIXED

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

X - Data either not available or does not fill the criteria for classification – Data available to make classification

## 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

Many chemicals may mimic or interfere with the body s hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

### 11.2.2. Other information

#### **Positive Control Lysate - Ultra**

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

### **SECTION 12 Ecological information**

#### 12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Positive Control Lysate - Ultra	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.006mg/L	2
	EC50	48h	Crustacea	0.007mg/l	2
isothiazolinones, mixed	LC50	96h	Fish	0.129mg/l	2
	EC50	96h	Algae or other aquatic plants	0.036mg/L	2
	NOEC(ECx)	48h	Algae or other aquatic plants	<0.001mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
p-tert-octylphenol ethoxylate	LC50	96h	Fish	>2.8<3.2mg/L	4
	EC50(ECx)	96h	Fish	3mg/L	5
Legend:	Ecotox databas		ECHA Registered Substances - Ecotoxicological Infor C Aquatic Hazard Assessment Data 6. NITE (Japan)		

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
p-tert-octylphenol ethoxylate	HIGH	HIGH

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
p-tert-octylphenol ethoxylate	HIGH (LogKOW = 4.863)

#### 12.4. Mobility in soil

Ingredient	Mobility
p-tert-octylphenol ethoxylate	LOW (Log KOC = 699.2)

### 12.5. Results of PBT and vPvB assessment

	Р	В	T	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?				
vPvB			No	

### 12.6. Endocrine disrupting properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine distruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformaties.

### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

o.i. Waste treatment methods		
Product / Packaging disposal	Osal Consult State Land Waste Management Authority for disposal.	
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

### **SECTION 14 Transport information**

### Labels Required

NO

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Chemwatch: **5555-32**Version No: **4.1** 

Positive Control Lysate - Ultra

Issue Date: **25/10/2022** Print Date: **21/09/2024** 

14.1.	UN number or ID				
	number UN proper shipping	Not Applicable			
	name				
	Transport hazard class(es)	Class Not Applicable Subsidiary Hazard Not Applicable			
14.4.	Packing group	Not Applicable			
	Environmental hazard	Not Applicable			
			alan) Nat Amaliantia		
		Hazard identification (Ken Classification code			
		Hazard Label	Not Applicable  Not Applicable		
	Special precautions for user	Special provisions	Not Applicable		
		Limited quantity	Not Applicable		
		Tunnel Restriction Code	Not Applicable		
\ir tran	nsport (ICAO-IATA / DGF	R): NOT REGULATED FOR	TRANSPORT OF DANGEROUS	GOODS	
14.1.	UN number	Not Applicable			
	UN proper shipping name	Not Applicable			
		ICAO/IATA Class	Not Applicable		
	Transport hazard class(es)	ICAO / IATA Subsidiary Ha	azard Not Applicable		
	ciass(es)	ERG Code	Not Applicable		
14.4.	Packing group	Not Applicable			
	Environmental hazard	Not Applicable			
		Special provisions		Not Applicable	
		Special provisions		Not Applicable	
		Cargo Only Packing Instru	ections	Not Applicable	
		Cargo Only Packing Instru		Not Applicable	
	Special precautions for	Cargo Only Maximum Qty	/ / Pack	Not Applicable	
	Special precautions for user	Cargo Only Maximum Qty Passenger and Cargo Pa	r / Pack cking Instructions	Not Applicable Not Applicable	
		Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma	r / Pack cking Instructions ximum Qty / Pack	Not Applicable  Not Applicable  Not Applicable	
		Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Ma Passenger and Cargo Lim	r / Pack cking Instructions	Not Applicable Not Applicable	
	user	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim	r / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
Sea tra	user ansport (IMDG-Code / G	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
<b>Sea tra</b> 14.1.	user ansport (IMDG-Code / Go	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim  GVSee): NOT REGULATED  Not Applicable	r / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
Sea tra 14.1. 14.2.	user ansport (IMDG-Code / G	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim	r / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
<b>Sea tra</b> 14.1. 14.2.	ansport (IMDG-Code / Go UN number UN proper shipping	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim  GVSee): NOT REGULATED  Not Applicable	r / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
Sea tra 14.1. 14.2.	ansport (IMDG-Code / Go UN number UN proper shipping name	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim  GVSee): NOT REGULATED  Not Applicable  Not Applicable	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
Sea tra 14.1. 14.2. 14.3.	ansport (IMDG-Code / Go UN number UN proper shipping name	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim  GVSee): NOT REGULATED  Not Applicable  IMDG Class	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGER  Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
Sea tra 14.1. 14.2. 14.3.	ansport (IMDG-Code / Gr UN number UN proper shipping name Transport hazard class(es)	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim  Rovsee): NOT REGULATED Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGER  Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
Sea tra 14.1. 14.2. 14.3.	ansport (IMDG-Code / Go UN number UN proper shipping name Transport hazard class(es)	Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Material Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime GVSee): NOT REGULATED Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable Not Applicable	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGER  Not Applicable Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
14.1. 14.2. 14.3. 14.4. 14.5 I	ansport (IMDG-Code / Ge UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim Passenger and Cargo Lim  ON Applicable  IMDG Class IMDG Subsidiary Hazard  Not Applicable	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGER  Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
14.1. 14.2. 14.3. 14.4. 14.5 I	ansport (IMDG-Code / Go UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim Passenger and Cargo Lim  Output  Both Applicable  IMDG Class IMDG Subsidiary Hazard  Not Applicable  Not Applicable  Not Applicable  EMS Number  Special provisions  Not	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGEI  Not Applicable Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	
14.1. 14.2. 14.3. 14.4. 14.5 I	ansport (IMDG-Code / Go UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim  Passenger and Cargo Lim  GVSee): NOT REGULATED  Not Applicable  IMDG Class  IMDG Subsidiary Hazard  Not Applicable  Not Applicable  EMS Number  Special provisions  Not  Limited Quantities  Not	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGEI  Not Applicable Not Applicable t Applicable t Applicable t Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5 I	ansport (IMDG-Code / Go UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard  Special precautions for user	Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Material Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime GVSee): NOT REGULATED Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not DN): NOT REGULATED FO	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGER  Not Applicable Not Applicable t Applicable t Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5 I	ansport (IMDG-Code / Go UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user waterways transport (A	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim Passenger and Cargo Lim  ON Applicable  IMDG Class IMDG Subsidiary Hazard  Not Applicable  Not Applicable  EMS Number Special provisions Limited Quantities  Not Applicable  Not Applicable	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGEI  Not Applicable Not Applicable t Applicable t Applicable t Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.6. 14.6. 14.1. 14.2.	ansport (IMDG-Code / Go UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard  Special precautions for user	Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Material Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime GVSee): NOT REGULATED Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not DN): NOT REGULATED FO	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGEI  Not Applicable Not Applicable t Applicable t Applicable t Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.6. 14.6. 14.1. 14.2. 14.3.	ansport (IMDG-Code / Go UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard  Special precautions for user  waterways transport (A UN number UN proper shipping	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim Passenger and Cargo Lim  Rovsee): NOT REGULATED Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not  Not Applicable	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGEI  Not Applicable Not Applicable t Applicable t Applicable t Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5 I 14.6.	ansport (IMDG-Code / Go UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard  Special precautions for user  waterways transport (A UN number UN proper shipping name Transport hazard	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim Passenger and Cargo Lim  Rovsee): NOT REGULATED Not Applicable Not Applicable IMDG Class IMDG Subsidiary Hazard Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not  Not Applicable	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGE    Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5 I 14.6.	ansport (IMDG-Code / Go UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard  Special precautions for user  waterways transport (A UN number UN proper shipping name Transport hazard class(es)	Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Material Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime Passenger and Cargo Lime Rowsenger and Cargo Maximum Rowsenger and Cargo Maximum Rowsenger and Cargo Lime Rowsenger and Cargo Maximum Rowsenger and Cargo Maximum Rowsenger and Cargo Lime Rowsenger and Cargo	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGE    Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5 I 14.6. 14.1. 14.2. 14.3.	ansport (IMDG-Code / Go UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user waterways transport (A UN number UN proper shipping name Transport hazard class(es) Packing group	Cargo Only Maximum Qty Passenger and Cargo Pac Passenger and Cargo Ma Passenger and Cargo Lim Passenger and Cargo Lim Passenger and Cargo Lim  Comparison of Cargo Lim  Com	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGE    Not Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5. I 14.2. 14.3. 14.4. 14.5. I 14.2. 14.3. 14.4. 14.5. I 14	ansport (IMDG-Code / Go UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard  Special precautions for user  waterways transport (A UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard	Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Material Passenger and Cargo Lime Row Applicable Not Applicable Not Applicable Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not Not Applicable	/ / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGEI  Not Applicable Not Applicable t Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5 I 14.2. 14.3. 14.4. 14.5 I 14.6. 14.3. 14.4. 14.5. 14.4. 14.5. 14.6.	ansport (IMDG-Code / Ge UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard  Special precautions for user  Waterways transport (A UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard	Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Material Passenger and Cargo Lime Row Applicable Not Applicable Not Applicable Not Applicable Not Applicable EMS Number Special provisions Limited Quantities Not Not Applicable	r / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGEI  Not Applicable Not Applicable t Applicable t Applicable t Applicable of Applicable plicable of Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	
14.1. 14.2. 14.3. 14.4. 14.5 I 14.2. 14.3. 14.4. 14.5 I 14.6. 14.3. 14.4. 14.5. 14.4. 14.5. 14.6.	ansport (IMDG-Code / Go UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard  Special precautions for user  waterways transport (A UN number UN proper shipping name  Transport hazard class(es)  Packing group Environmental hazard	Cargo Only Maximum Qty Passenger and Cargo Pace Passenger and Cargo Material Passenger and Cargo Lime Rowsenger and Cargo Maximum Rowsenger and Cargo Lime Rowsenger and Cargo Maximum Rowsenger and Cargo Lime Rowsenger and Cargo Maximum Rowsenger and Cargo Lime Rowsenger	r / Pack cking Instructions ximum Qty / Pack nited Quantity Packing Instructions nited Maximum Qty / Pack  FOR TRANSPORT OF DANGER  Not Applicable Not Applicable t Applicable t Applicable t Applicable of Applicable of Applicable of Applicable of Applicable	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable ROUS GOODS	

Positive Control Lysate - Ultra

Issue Date: **25/10/2022**Print Date: **21/09/2024** 

### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
isothiazolinones, mixed	Not Available
p-tert-octylphenol ethoxylate	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type	
isothiazolinones, mixed	Not Available	
p-tert-octylphenol ethoxylate	Not Available	

#### **SECTION 15 Regulatory information**

#### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

#### isothiazolinones, mixed is found on the following regulatory lists

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

#### p-tert-octylphenol ethoxylate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Proposals to identify Substances of Very High Concern: Annex XV reports for commenting by Interested Parties previous consultation

Europe European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

Europe Regulation (EC) No 1907/2006 - Annex XIV List of Substances Subject to Authorisation

#### **Additional Regulatory Information**

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

#### Information according to 2012/18/EU (Seveso III):

Seveso Category	Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### **National Inventory Status**

National Inventory	Status			
Australia - AIIC / Australia Non- Industrial Use	No (isothiazolinones, mixed)			
Canada - DSL	Yes			
Canada - NDSL	No (isothiazolinones, mixed; p-tert-octylphenol ethoxylate)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	No (isothiazolinones, mixed; p-tert-octylphenol ethoxylate)			
Japan - ENCS	Yes			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	No (isothiazolinones, mixed)			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (isothiazolinones, mixed; p-tert-octylphenol ethoxylate)			
Vietnam - NCI	Yes			
Russia - FBEPH	Yes			
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.			

#### **SECTION 16 Other information**

Revision Date	25/10/2022	
Initial Date	19/07/2022	
Full text Risk and Hazard codes		
H301	Toxic if swallowed.	

H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal in contact with skin.	
H314	Causes severe skin burns and eye damage.	

Chemwatch: 5555-32 Version No: 4.1

#### Positive Control Lysate - Ultra

Issue Date: 25/10/2022 Print Date: 21/09/2024

H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	auses serious eye damage.	
H330	atal if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	31/08/2022	Composition / information on ingredients - Ingredients
4.1	25/10/2022	Disposal considerations - Disposal, Handling and storage - Storage (storage incompatibility), Handling and storage - Storage (suitable container)

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ► LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.