



# SAFETY DATA SHEET

New Zealand

## Section 1. Identification

### Product name

**ActiCHO™ P, with Poloxamer-188, without Insulin, without L-Glutamine**

### Catalogue Number

SH31025.11



9 0 S H 3 1 0 2 5 . 1 1

Other means of identification Not available.

Product type Powder.

### Identified uses

For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use.

### Supplier

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### Emergency telephone number

111

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## Section 2. Hazards identification

### HSNO Classification

EYE IRRITATION - Category 2  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 47.7%

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

### GHS label elements

#### Signal word

Warning

#### Hazard statements

Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.

#### Precautionary statements

##### General

Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

##### Prevention

Wear eye or face protection. Avoid release to the environment. Wash thoroughly after handling.

##### Response

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

<b>Storage</b>	Not applicable.
<b>Disposal</b>	Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Symbol**

**Other hazards which do not result in classification** May form explosive dust-air mixture if dispersed.

### Section 3. Composition/information on ingredients

Substance/mixture	Mixture	% (w/w)	Identifiers
Other means of identification	Not available.		
<b>Ingredient name</b>			
Sodium chloride	<15.95	CAS: 7647-14-5 EC: 231-598-3	
Poloxalene >50% in a non hazardous diluent	<9.95	CAS: 9003-11-6	
Butanedioic acid	<6.55	CAS: 110-15-6 EC: 203-740-4	
Potassium chloride	<4.05	CAS: 7447-40-7 EC: 231-211-8	
Sodium phosphate	<4.05	CAS: 7558-80-7 EC: 231-449-2	
L-serine	<3.4	CAS: 56-45-1 EC: 200-274-3	
L-valine	<2.35	CAS: 72-18-4 EC: 200-773-6	
L-tryptophan	<1.05	CAS: 73-22-3 EC: 200-795-6	

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

### Section 4. First aid measures

#### Description of necessary first aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Ingestion</b>	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Inhalation</b>	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
<b>Ingestion</b>	No known significant effects or critical hazards.

**Skin contact** No known significant effects or critical hazards.

**Eye contact** Causes serious eye irritation.

#### Over-exposure signs/symptoms

**Inhalation** Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Ingestion** No specific data.

**Skin** No specific data.

**Eyes** Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

#### Indication of immediate medical attention and special treatment needed, if necessary

**Specific treatments** Not available.

**Notes to physician** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Firefighting measures

#### Extinguishing media

**Suitable** Use dry chemical powder.

**Not suitable** Avoid high pressure media which could cause the formation of a potentially explosive dust-air mixture.

**Specific hazards arising from the chemical** May form explosive dust-air mixture if dispersed. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
phosphorus oxides  
halogenated compounds  
metal oxide/oxides

**Hazchem code** Not available.

**Special precautions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

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

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

**Small spill** Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

<b>Protective measures</b>	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<b>Conditions for safe storage, including any incompatibilities</b>	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

#### Biological exposure indices

No exposure indices known.

#### Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.

#### Skin protection

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

##### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

<b>Physical state</b>	Solid. [Powder.]
<b>Colour</b>	Light brown. to Orange.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	3 to 4 [Conc. (% w/w): 2.2%]
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Burning time</b>	Not available.
<b>Burning rate</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Lower and upper explosive (flammable) limits</b>	Not applicable.
<b>Vapour pressure</b>	Not available.
<b>Relative vapour density</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility in water</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>SADT</b>	Not available.
<b>Viscosity</b>	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.
<b>Flow time (ISO 2431)</b>	Not available.

### Particle characteristics

<b>Median particle size</b>	Not available.
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## Section 10. Stability and reactivity

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
<b>Incompatible materials</b>	Reactive or incompatible with the following materials: oxidising materials
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Eye contact</b>	Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Ingestion</b>	No specific data.
<b>Skin contact</b>	No specific data.

<b>Eye contact</b>	Adverse symptoms may include the following: pain or irritation watering redness
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Acute toxicity****Product/ingredient name**

Poloxalene &gt;50% in a non hazardous diluent

**Result****Rabbit - Dermal - LD50**

20000 mg/kg

**Rat - Oral - LD50**

5700 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity)

Gastrointestinal - Hypermotility, diarrhea

**Rat - Oral - LD50**

2260 mg/kg

**Rat - Male - Oral - LD50**

2600 mg/kg

Toxic effects: Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Nausea or vomiting**Rat - Oral - LD50**

8290 mg/kg

**Rat - Oral - LD50**

14 g/kg

**Rat - Oral - LD50**

2000 mg/kg

**Rat - Oral - LD50**

&gt;16 g/kg

Toxic effects: Eye - Ptosis Behavioral - Coma Changes in Chemistry or Temperature - Body temperature decrease

Butanedioic acid

Potassium chloride

Sodium phosphate

L-serine

L-valine

L-tryptophan

**Conclusion/Summary[Product]** Not available.**Skin corrosion/irritation**

Not available.

**Conclusion/Summary[Product]** Not available.**Ingredient name**

L-serine

L-valine

L-tryptophan

**Conclusion/Summary**

May cause skin irritation.

May cause skin irritation.

May cause skin irritation.

**Serious eye damage/eye irritation****Product/ingredient name**

L-tryptophan

**Result****Rabbit - Eyes - Severe irritant**Amount/concentration applied: 100 mg**Conclusion/Summary[Product]** Not available.**Ingredient name**

L-serine

L-valine

L-tryptophan

**Conclusion/Summary**

May cause eye irritation.

May cause eye irritation.

May cause eye irritation.

**Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary[Product]** Not available.**Respiratory or skin sensitization**

Not available.

**Skin****Conclusion/Summary[Product]** Not available.

**Respiratory**

**Conclusion/Summary[Product]** Not available.

**Potential chronic health effects**

<b>General</b>	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
<b>Inhalation</b>	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
<b>Ingestion</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	No known significant effects or critical hazards.
<b>Eye contact</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.

**Chronic toxicity**

Not available.

**Conclusion/Summary[Product]** Not available.

**Carcinogenicity**

Not available.

**Conclusion/Summary[Product]** Not available.

**Germ cell mutagenicity**

Not available.

**Conclusion/Summary[Product]** Not available.

**Reproductive toxicity**

Not available.

**Conclusion/Summary[Product]** Not available.

**Specific target organ toxicity (single exposure)****Product/ingredient name**

Sodium phosphate

**Result**

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Respiratory tract irritation) - Category 3

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Numerical measures of toxicity****Acute toxicity estimates**

<b>Product/ingredient name</b>	<b>Oral (mg/kg)</b>	<b>Dermal (mg/kg)</b>	<b>Inhalation (gases) (ppm)</b>	<b>Inhalation (vapours) (mg/l)</b>	<b>Inhalation (dusts and mists) (mg/l)</b>
HyClone™ ActiCHO™ P	79341.7	N/A	N/A	N/A	N/A
Poloxalene >50% in a non hazardous diluent	5700	20000	N/A	N/A	N/A
Butanedioic acid	2260	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
Sodium phosphate	8290	N/A	N/A	N/A	N/A
L-serine	14000	N/A	N/A	N/A	N/A
L-valine	2000	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### **Ecotoxicity**

This material is harmful to aquatic life with long lasting effects.

### **Aquatic and terrestrial toxicity**

#### **Product/ingredient name**

Sodium chloride

#### **Result**

##### **Acute - LC50 - Fresh water**

Fish - Striped bass - *Morone saxatilis* - Larvae  
1000 mg/l [96 hours]

Effect: Mortality

##### **Chronic - NOEC - Fresh water**

Daphnia - Water flea - *Daphnia pulex*  
0.314 g/l [21 days]

Effect: Reproduction

##### **Chronic - NOEC - Fresh water**

Fish - Eastern mosquitofish - *Gambusia holbrookii* - Adult  
100 mg/l [8 weeks]

Effect: Reproduction

##### **Chronic - NOEC - Fresh water**

OECD  
Aquatic plants - Duckweed - *Lemna minor*  
6 g/l [96 hours]

Effect: Growth

##### **Acute - EC50 - Fresh water**

Daphnia - Water flea - *Daphnia magna*  
402.6 mg/l [48 hours]

Effect: Intoxication

##### **Acute - EC50 - Fresh water**

Algae - Green algae - *Selenastrum capricornutum*  
28.85 mg/dm³ [72 hours]

Effect: Population

##### **LC50**

OECD 203 [Fish, Acute Toxicity Test]  
Fish  
10000 mg/l [96 hours]

##### **Acute - EC50 - Fresh water**

Daphnia - Water flea - *Daphnia magna* - Larvae  
Age: <24 hours  
374.2 mg/l [48 hours]

Effect: Intoxication

##### **Acute - LC50 - Fresh water**

Crustaceans - Water flea - *Pseudosida ramosa* - Neonate  
Age: ≤24 hours  
9.68 mg/l [48 hours]

Effect: Mortality

##### **Acute - EC50 - Fresh water**

ISO  
Algae - Green algae - *Desmodesmus subspicatus*  
9.24 g/l [72 hours]

Effect: Population

##### **Acute - LC50 - Fresh water**

Fish - Zebra danio - *Danio rerio*  
509.65 mg/l [96 hours]

Effect: Mortality

##### **Acute - LC50 - Fresh water**

Fish - Western mosquitofish - *Gambusia affinis* - Adult  
720 ppm [96 hours]

Effect: Mortality

##### **Acute - EC50**

Daphnia  
83 mg/l [48 hours]

##### **Acute - NOEC**

Algae  
1000 mg/l [72 hours]

##### **LC50**

Fish  
10000 mg/l [96 hours]

Poloxalene >50% in a non hazardous diluent

Butanedioic acid

Potassium chloride

Sodium phosphate

L-serine

L-valine

**Conclusion/Summary[Product]** Not available.

#### **Ingredient name**

L-serine

L-valine

L-tryptophan

#### **Conclusion/Summary**

Naturally occurring substance

Naturally occurring substance

Naturally occurring substance

**Persistence/degradability**

Product/ingredient name	Result
L-valine	82% [28 days]
<b>Conclusion/Summary[Product]</b>	Not available.
<b>Ingredient name</b>	<b>Conclusion/Summary</b>
Poloxalene >50% in a non hazardous diluent	Not expected to bioaccumulate.
L-serine	Not expected to bioaccumulate. Naturally occurring substance
L-valine	Not expected to bioaccumulate. Naturally occurring substance
L-tryptophan	Not expected to bioaccumulate. Naturally occurring substance

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
L-valine	-	-	Readily

**Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
succinic acid	-0.59	-	Low
L-serine	-3.07	0.609	Low
L-valine	-2.26	0.846	Low
L-tryptophan	-1.06	1.37	Low

**Mobility in soil**

**Soil/water partition coefficient** Not available.

**Other adverse effects** No known significant effects or critical hazards.

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## Section 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
New Zealand Class	Not regulated.	-	-	-
IATA Class	Not regulated.	-	No.	-
IMDG Class	Not regulated.	-	-	-
			No.	-

PG\* : Packing group

**Special precautions for user** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** Not available.

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## Section 15. Regulatory information

<b>HSNO Approval Number</b>	Not available.
<b>HSNO Group Standard</b>	Not available.
<b>HSNO Classification</b>	EYE IRRITATION - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
<b>International regulations</b>	

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**Inventory list**

New Zealand	Not determined.
Australia	Not determined.
United States	Not determined.
Canada inventory	Not determined.
China	Not determined.
Japan	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

**Section 16. Other information****History**

**Date of printing** 25 October 2025

**Date of issue/ Date of revision** 25 October 2025

**Date of previous issue** 7/31/2025

**Version** 1.02

<b>Key to abbreviations</b>	ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
<b>References</b>	Not available.

 Indicates information that has changed from previously issued version.

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.