



**Revised February 2025** 

# Safety Data Sheet HiTrace 5 Liquid

### 1. Identification of Substance & Company

#### Product

Product name Product codes HSNO approval Approval description UN number DG class Proper Shipping Name

Packaging group Hazchem code Uses

Company Details

Company Physical Address

**Postal Address** 

Telephone Email Website HiTrace 5 Liquid 595200 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2020 3077 9 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (contains zinc sulphate, copper sulphate) III 2Z Supplement for animal food

Nutritech International 6 Aintree Avenue Airport Oaks, Mangere Auckland New Zealand PO Box 201 231 Auckland Airport 2150 New Zealand 0800 736 336 (0800 REMEDY) customerservices@nutritech.co.nz www.nutritech.co.nz

## Emergency Telephone Number: 0800 764 0766

#### 2. Hazard Identification

#### Approval in New Zealand

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002521, Animal Nutritional and Animal Care Products Group Standard 2020): The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

#### **GHS 7 Classes**

#### **Hazard Statements**

Acute toxicity category 4 (oral) Eye irritant category 2 Skin sensitiser category 1 STOT\* repeated exposure category 2 Chronic aquatic category 1 Acute aquatic category 1 H302 - Harmful if swallowed. H319 - Causes serious eye irritation.

- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.
- H400 Very toxic to aquatic life.







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#### **Other Classifications**

There are no other classifications that are known to apply.

#### **Precautionary Statements**

Prevention	<ul> <li>P102 - Keep out of reach of children.</li> <li>P103 - Read label before use.</li> <li>P260 - Do not breathe mist/vapours.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> </ul>
Response	<ul> <li>P101 - If medical advice is needed, have product container or label at hand.</li> <li>P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.</li> <li>P330 - Rinse mouth.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.</li> <li>P391 - Collect spillage.</li> </ul>
Storage Disposal	P405 - Store locked up. P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

#### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Zinc sulphate monohydrate	7446-19-7	1-3%
copper sulphate	7758-98-7	1-10%
Cobalt Sulphate Heptahydrate	10026-24-1	<0.1%
potassium iodate	7758-05-6	0.1-1%
sodium selenite	10102-18-8	<0.1%
ingredients not contributing to HSNO classes	mixture	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

#### **General Information**

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service). IF exposed or concerned: Get medical advice/ attention.







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Recommended first aid facilities	Revised February 2025 Ready access to running water is required. Accessible eyewash is required.
Exposure	
Swallowed	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor if experiencing any symptoms.
Eye contact	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/attention.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Inhaled	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
Advice to Doctor	
Treat symptomatically	
	5. Firefighting Measures

	5. Filenghung measures
Fire and explosion hazards:	There are no specific risks for fire/explosion for this chemical. It is non-flammable.
Suitable extinguishing	Carbon dioxide, extinguishing powder, foam, fog sprays.
substances:	
Unsuitable extinguishing	Unknown.
substances:	
Products of combustion:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
Protective equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat
	and eye protection.
Hazchem code:	2Z
	6. Accidental Release Measures
Containment	If greater than 100kg is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm water.
Emergency procedures	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
Clean-up method	Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Disposal	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
Precautions	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.
	7. Storage & Handling
Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.







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Handling

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Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

#### 8. Exposure Controls / Personal Protective Equipment

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

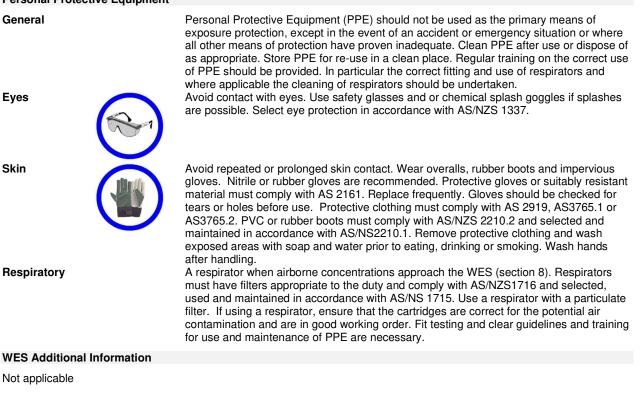
NZ Workplace	Ingredient
Exposure Stds	copper sulphate as Cu
	Cobalt Sulphate Heptahydrate as Co
	sodium selenite as Se

WES-TWA 0.01 mg/m<sup>3</sup> (dsen) 0.02mg/m<sup>3</sup> (carc 2, bio) 0.02mg/m<sup>3</sup> (skin) WES-STEL

**Engineering Controls** 

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

#### **Personal Protective Equipment**









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	9. Physical & Chemical Properties
Appearance	liquid
Odour	not specified
Odour Threshold	no data
рН	no data
Freezing/melting point	no data
Boiling Point	no data
Flashpoint	no data
Flammability	no data
Upper & lower flammable limits	no data
Vapour pressure	no data
Vapour density	no data
Specific gravity/density	~1
Solubility	soluble in water
Partition coefficient	no data
Auto-ignition temperature	no data
Decomposition temperature	no data
Viscosity	no data
Particle Characteristics	no data
	10. Stability & Reactivity
Stability	Stable
Conditions to be avoided	Containers should be kept closed in order to avoid contamination. Keep from extreme
	heat and open flames.
Incompatible groups	Acids and strong oxidisers
Substance Specific	none known
Incompatibility	
Hazardous decomposition	none known
products	
Hazardous reactions	none known
	11. Toxicological Information

#### Summary

IF SWALLOWED: may cause irritation, nausea, stomach pains and/or vomiting.

IF IN EYES: may cause eye serious eye damage.

IF ON SKIN: sensitised individuals may experience an allergic skin reaction. Dust may be irritating to the skin.

IF INHALED: no effect expected.

CHRONIC TOXICITY: repeated exposure may be harmful to kidneys (copper sulphate), heart and pancreas. Cobalt sulphate may damage fertility and is suspected carcinogen.

#### Supporting Data

Acute	Oral	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >5,000 mg/kg. Data considered includes: Zinc sulphate monohydrate 1891mg/kg (mouse), copper sulphate 125mg/kg (rabbit), Cobalt Sulphate Heptahydrate 330mg/kg (sheep), sodium selenite 2.19mg/kg).
	Dermal	No evidence of dermal toxicity.
	Inhaled	No evidence of acute inhalation toxicity.
	Еуе	The mixture is considered to be an eye irritant, because some of the ingredients present are considered eye irritants in more concentrated form.
	Skin	The mixture is not considered to be a skin irritant.
Chronic	Sensitisation	The mixture is considered to be a contact sensitizer, because Copper sulphate in greater than 0.1% is known to be a contact sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.







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#### Systemic

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Aggravation of existing conditions The mixture is considered to be a known or presumed target organ toxicant. Copper sulphate is considered to be considered harmful with repeated exposure. None known.

12. Ecological Data

#### Summary

This mixture is considered toxic towards aquatic organisms with long lasting effects and harmful towards terrestrial vertebrates.

vertebrates.				
Supporting Data				
Aquatic		considered in Copper sulph waterflea), 0.0	ncludes: Cobalt Sulphate Hepta nate 0.0028mg/L (acute, 96hr, F 005mg/L (72hr, seawater algae is mykiss), 0.09877mg/L (48hr,	$EC_{50}$ for the mixture is < 1 mg/L. Data hydrate $EC_{50}$ 0.4-72 mg/L (72hr, Algae), Fathead minnow), 0.0014mg/L (48hr, e), Zinc sulphate 98.77ug/L (96hr, Daphnia hyalina), 0.02469mg/L (5d, Ditylun
Bioaccumulation		No data		
Degradability		No data		
Soil		No data		
Terrestrial vertebra	ite	See acute tox	xicity.	
Terrestrial inverteb	orate	No data	,	
Biocidal		no data		
Environmental effe	ct levels	No EELs are	available for this mixture or ing	redients
		13.	<b>Disposal Considerations</b>	
Restrictions		There are no	product-specific restrictions, he	owever, local council and resource consent
		conditions ma Disposal of th	ay apply, including requirement	s of trade waste consents. e Hazardous Substances (Disposal) Notice
	kaging	2017 and the be sought from rendered non	requirements of the Resource m the Regional Authority. The n-hazardous before discharge to	Management Act for which approval should substance must be treated and therefore o the environment.
Disposal method Contaminated pacl	kaging	2017 and the be sought from rendered non Disposal of co (Disposal) No containing an requirements	requirements of the Resource m the Regional Authority. The h-hazardous before discharge to ontaminated packaging must co btice 2017 clause 12. Ensure th y substance and is disposed in	Management Act for which approval should substance must be treated and therefore
	kaging	2017 and the be sought from rendered non Disposal of co (Disposal) No containing an requirements	requirements of the Resource m the Regional Authority. The h-hazardous before discharge to ontaminated packaging must co bice 2017 clause 12. Ensure th y substance and is disposed in of the substance it contained a	Management Act for which approval should substance must be treated and therefore to the environment. comply with the Hazardous Substances that the package is rendered incapable of a manner that is consistent with the
Contaminated pacl	le: Dangerous (	2017 and the be sought from rendered non Disposal of co (Disposal) Not containing an requirements reuse or recycle 14. Goods 2005 -	requirements of the Resource m the Regional Authority. The h-hazardous before discharge to ontaminated packaging must co brice 2017 clause 12. Ensure th y substance and is disposed in of the substance it contained a cle packaging. Transport Information NZS 5433:2007	Management Act for which approval should substance must be treated and therefore o the environment. omply with the Hazardous Substances hat the package is rendered incapable of a manner that is consistent with the and the material of the package. If possible
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Contaminated pack Land Transport Ru Transport according UN number:	le: Dangerous ( to NZS 5433 (T	2017 and the be sought from rendered non Disposal of co (Disposal) No containing an requirements reuse or recyc 14. Goods 2005 - ransport of Ha	a requirements of the Resource on the Regional Authority. The in-hazardous before discharge to ontaminated packaging must ca bitce 2017 clause 12. Ensure th y substance and is disposed in of the substance it contained a cle packaging. <b>Transport Information</b> <b>NZS 5433:2007</b> azardous Substances on Land). <b>Proper shipping name:</b>	Management Act for which approval should substance must be treated and therefore of the environment. omply with the Hazardous Substances that the package is rendered incapable of a manner that is consistent with the and the material of the package. If possible . Considered a dangerous good for transpor ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s.
Contaminated pacl	le: Dangerous ( to NZS 5433 (T 3082	2017 and the be sought from rendered non Disposal of co (Disposal) Not containing an requirements reuse or recyc 14. Goods 2005 - ransport of Ha	requirements of the Resource m the Regional Authority. The h-hazardous before discharge to ontaminated packaging must co btice 2017 clause 12. Ensure th y substance and is disposed in of the substance it contained a cle packaging. Transport Information NZS 5433:2007 azardous Substances on Land).	Management Act for which approval should substance must be treated and therefore of the environment. omply with the Hazardous Substances that the package is rendered incapable of a a manner that is consistent with the and the material of the package. If possible . Considered a dangerous good for transport ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (contains zinc sulphate, copper sulphate)
Contaminated pack Land Transport Rul Transport according JN number: Class(es)	le: Dangerous ( to NZS 5433 (T 3082 9	2017 and the be sought from rendered non Disposal of co (Disposal) Not containing an requirements reuse or recyc 14. Goods 2005 - ransport of Ha	requirements of the Resource m the Regional Authority. The h-hazardous before discharge to ontaminated packaging must co otice 2017 clause 12. Ensure th y substance and is disposed in of the substance it contained a cle packaging. Transport Information NZS 5433:2007 azardous Substances on Land). Proper shipping name: Packing group: Hazchem code:	Management Act for which approval should substance must be treated and therefore to the environment. The package is rendered incapable of a manner that is consistent with the and the material of the package. If possible Considered a dangerous good for transport ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (contains zinc sulphate, copper sulphate) III
Contaminated pack Land Transport Rul Transport according UN number: Class(es) Precautions:	le: Dangerous ( to NZS 5433 (T 3082 9	2017 and the be sought from rendered non Disposal of co (Disposal) Not containing an requirements reuse or recyc 14. Goods 2005 - ransport of Ha	requirements of the Resource in the Regional Authority. The in-hazardous before discharge to ontaminated packaging must co brice 2017 clause 12. Ensure th is substance and is disposed in of the substance it contained a cle packaging. <b>Transport Information</b> <b>NZS 5433:2007</b> azardous Substances on Land). <b>Proper shipping name:</b>	Management Act for which approval should substance must be treated and therefore o the environment. omply with the Hazardous Substances lat the package is rendered incapable of a manner that is consistent with the and the material of the package. If possible . Considered a dangerous good for transpor ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (contains zinc sulphate, copper sulphate) III 2Z ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (contains zinc sulphate, copper
Contaminated pack Land Transport Rul Transport according UN number: Class(es) Precautions:	le: Dangerous ( to NZS 5433 (T 3082 9 Marine pollut	2017 and the be sought from rendered non Disposal of co (Disposal) Not containing an requirements reuse or recyc 14. Goods 2005 - ransport of Ha	requirements of the Resource m the Regional Authority. The h-hazardous before discharge to ontaminated packaging must co otice 2017 clause 12. Ensure th y substance and is disposed in of the substance it contained a cle packaging. Transport Information NZS 5433:2007 azardous Substances on Land). Proper shipping name: Packing group: Hazchem code:	Management Act for which approval should substance must be treated and therefore o the environment. omply with the Hazardous Substances lat the package is rendered incapable of a manner that is consistent with the and the material of the package. If possible . Considered a dangerous good for transpon ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (contains zinc sulphate, copper sulphate) III 2Z ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s.





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IATA UN number:	3082	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (contains zinc sulphate, copper sulphate)
Class(es) Precautions:	9 Marine pollutant	Packing group:	

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002521, Animal Nutritional and Animal Care Products Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

#### **Specific Controls**

Key workplace requirements are:	
SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintain
Packaging	All hazardous substances should be appropriately packaged including sul manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Required if > 100kg is stored.
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Required if > 100kg is stored.
Signage	Required if > 100kg is stored.
Location compliance certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.
Note: The above workplace requirements appl	ly if only this particular substance is present. The complete set of controls for a

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information		
Abbreviations		
Approval Code	Approval HSR002521, Animal Nutritional and Animal Care Products Group Standard 2020 Controls, EPA, www.epa.govt.nz	
CAS Number	Unique Chemical Abstracts Service Registry Number	
<b>EC</b> <sub>50</sub>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)	
EPA	Environmental Protection Authority (New Zealand)	
GHS	Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised edition, 2017, published by the United Nations.	
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters	
HSNO LEL	Hazardous Substances and New Organisms (Act and Regulations) Lower Explosive Limit	
LD <sub>50</sub>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).	







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LC <sub>50</sub>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
NZIOC STEL	New Zealand Inventory of Chemicals Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
STOT RE TWA	Specific Target Organ Toxicity – Repeated Exposure Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number WES	United Nations Number Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.
References	
Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
Controls	EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz
WES	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz.
Other References:	Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus
Review	
<b>Date</b> January 2021 February 2025	<b>Reason for review</b> Not applicable – new SDS yearly update, HSNO to GHS 7, update to WES
Disclaimer	

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.









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