

SAFETY DATA SHEET

CALDOFIX-2 HARDENER



Section 1. Identification

Product name : CALDOFIX-2 HARDENER
Cat. No. : 40200086, 50209095
Container size : 325 ml, 500 ml
Chemical name : 4,4'-methylenebis(cyclohexylamine)
Other means of identification : Cyclohexylamine, 4,4'-methylenebis-; Bis(4-aminocyclohexyl)methane; Cyclohexylamine, 4,4'-methylenebis-; 4,4'-Diaminodicyclohexylmethane; 4,4'-Methylenebis(cyclohexan-1-amine); Diaminodicyclohexylmethane; 4,4'-Methylenebiscyclohexylamine; BIS(CYCLOHEXYLAMINE), 4,4'-METHYLENE-; Methylenebiscyclohexylamine, 4,4'-; 4,4 diaminodicyclohexylmethane; Cyclohexylamine, 4,4'-methylenebis-
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : For embedding and impregnation of materialographic specimens
Area of application : Professional applications.

Supplier's details : Struers Australia
27 Mayneview Street
Milton QLD 4064, Australia

Telephone: +61 7 3512 9600

e-mail address of person responsible for this SDS : sdsquestions@struers.dk
Emergency telephone number (with hours of operation) : National Poisons Centre: 0800 764 766 (24/7)

Section 2. Hazards identification

HSNO Classification	: H302	ACUTE TOXICITY (oral) - Category 4
	H330	ACUTE TOXICITY (inhalation) - Category 1
	H314	SKIN CORROSION - Category 1C
	H318	SERIOUS EYE DAMAGE - Category 1
	H317	SKIN SENSITISATION - Category 1
	H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

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

 This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2020 Transport of Dangerous Goods on Land.

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Section 2. Hazards identification

GHS label elements

- Signal word** : Danger
- Hazard statements** : H302 - Harmful if swallowed.
 H314 - Causes severe skin burns and eye damage.
 H317 - May cause an allergic skin reaction.
 H330 - Fatal if inhaled.
 H373 - May cause damage to organs through prolonged or repeated exposure.
 H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

- Prevention** : P280 - Wear protective gloves, protective clothing and eye or face protection.
 P284 - In case of inadequate ventilation wear respiratory protection.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P260 - Do not breathe vapour.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash thoroughly after handling.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
- Response** : P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
 P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
 P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
 P363 - Wash contaminated clothing before reuse.
 P305 + P351 + P338, P310 - 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 or doctor.
- Storage** : P405 - Store locked up.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Symbol** :



- Other hazards which do not result in classification** : Causes severe digestive tract burns.

Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: 4,4'-methylenebis(cyclohexylamine)
Other means of identification	: ☒ Cyclohexanamine, 4,4'-methylenebis-; Bis(4-aminocyclohexyl)methane; Cyclohexylamine, 4,4'-methylenebis-; 4,4'-Diaminodicyclohexylmethane; 4,4'-Methylenebis(cyclohexan-1-amine); Diaminodicyclohexylmethane; 4,4'-Methylenebiscyclohexylamine; BIS(CYCLOHEXYLAMINE), 4,4'-METHYLENE-; Methylenebiscyclohexanamine, 4,4'-; 4,4 diaminodicyclohexylmethane; Cyclohexanamine, 4,4'-methylenebis-

Ingredient name	% (w/w)	Identifiers
4,4'-methylenebis(cyclohexylamine)	100	CAS: 1761-71-3

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

Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.



Section 4. First aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation : Fatal if inhaled.

Ingestion : Severely corrosive to the digestive tract. Causes severe burns. Harmful if swallowed.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Eye contact : Causes serious eye damage.

Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : Adverse symptoms may include the following:
stomach pains

Skin : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Eyes : Adverse symptoms may include the following:
pain
watering
redness

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

Specific treatments : No specific treatment.

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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Not suitable : Do not use water jet.



Section 5. Firefighting measures

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. 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
Hazchem code	: 2X
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.
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.
Remark	: Not considered to be a product presenting a risk of explosion.

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. Do not breathe vapour or mist. 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	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.



Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. 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. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : 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.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. 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. Store locked up. Separate from acids. 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. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



Section 8. Exposure controls/personal protection

- 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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. Recommended: Butyl rubber gloves. The breakthrough time must be greater than the end use time of the product.
- 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

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Ammonia.
- Odour threshold** : Not available.
- pH** : 11.6
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : 320°C (608°F) [OECD 103]
- Flash point** : Closed cup: 160°C (320°F)
- Evaporation rate** : Not available.
- Flammability** : Not considered to be flammable .
- Lower and upper explosion limit/flammability limit** : Lower: 0.9%
Upper: 4.4%

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Section 9. Physical and chemical properties and safety characteristics

Vapour pressure	: 0.000055 kPa (0.00041178 mm Hg) [OECD 104]				
Relative vapour density	: 7.24 [Air = 1]				
Relative density	: 0.964 [OECD 109]				
Density	: 0.95 g/cm ³ [25°C (77°F)] [OECD 109]				
Solubility(ies)	: <table border="1"> <thead> <tr> <th>Media</th><th>Result</th></tr> </thead> <tbody> <tr> <td>water</td><td>Partially soluble</td></tr> </tbody> </table>	Media	Result	water	Partially soluble
Media	Result				
water	Partially soluble				
Solubility in water	: 12.3 g/l				
Miscible with water	: No.				
Partition coefficient: n-octanol/water	: 2.03 [OECD 107]				
Auto-ignition temperature	: 300°C (572°F) [EU A.15]				
Decomposition temperature	: Not available.				
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): 31.2 mm ² /s (31.2 cSt) Kinematic (40°C (104°F)): Not available.				
Flow time (ISO 2431)	: Not available.				
Molecular weight	: 210.41 g/mole				
Particle characteristics					
Median particle size	: Not applicable.				
Other information					
Physical/chemical properties comments	: No additional information.				

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	: Reactive or incompatible with the following materials: acids Reactive or incompatible with the following materials: oxidising materials and metals. (aluminium, zinc)



Section 10. Stability and reactivity

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on likely routes of exposure

Inhalation : Fatal if inhaled.

Ingestion : Severely corrosive to the digestive tract. Causes severe burns. Harmful if swallowed.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Eye contact : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : Adverse symptoms may include the following:
stomach pains

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	
4,4'-methylenebis(cyclohexylamine)	Rabbit - Male, Female - Dermal - LD50 2110 mg/kg Rat - Oral - LD50 380 mg/kg	EPA [OPP 81-2 Acute Dermal Toxicity]

Conclusion/Summary[Product] : Not available.

Skin corrosion/irritation

Conclusion/Summary[Product] : Not available.

Serious eye damage/eye irritation

Conclusion/Summary[Product] : Not available.

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Section 11. Toxicological information

Respiratory corrosion/irritation

Conclusion/Summary[Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name	Result	
4,4'-methylenebis(cyclohexylamine)	Guinea pig - skin <u>Result:</u> Sensitising	OECD 406 [Skin Sensitization]

Skin

Conclusion/Summary[Product] : Not available.

Respiratory

Conclusion/Summary[Product] : Not available.

Potential chronic health effects

General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eye contact	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary[Product] : Not available.

Carcinogenicity

Conclusion/Summary[Product] : Not available.

Germ cell mutagenicity

Product/ingredient name	Result
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Section 11. Toxicological information

4,4'-methylenebis(cyclohexylamine)	In vitro - Bacteria	OECD 471 [Bacterial Reverse Mutation Test]
	Result: Negative	
	In vitro - Mammalian-Animal	OECD 473 [In vitro Mammalian Chromosomal Aberration Test]
	Result: Negative	
	In vitro - Mammalian-Animal	OECD 476 [In vitro Mammalian Cell Gene Mutation Test]
	Result: Negative	

Conclusion/Summary[Product] : Not available.

Reproductive toxicity

Conclusion/Summary[Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
4,4'-methylenebis(cyclohexylamine)	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
4,4'-methylenebis(cyclohexylamine)	380	2110	N/A	N/A	0.005

Section 12. Ecological information

Ecotoxicity : Not readily biodegradable. This product shows a low bioaccumulation potential. This material is harmful to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredient name	Result
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Section 12. Ecological information

4,4'-methylenebis(cyclohexylamine) **Acute - EC50**
 Fish - *Leuciscus idus*
 >100 mg/l [96 hours]
Acute - EC50
 Daphnia - *Daphnia magna*
 6.84 mg/l [48 hours]
Chronic - NOEC
 Daphnia - *Daphnia magna*
 4 mg/l [21 days]
Acute - EC50
 Algae
 141.2 mg/l [72 hours]
Acute - EC50
 Daphnia - *Daphnia magna*
 9.24 mg/l [48 hours]

Conclusion/Summary[Product] : Not available.

Persistence and degradability

Product/ingredient name	Result	
4,4'-methylenebis(cyclohexylamine)	<10% [28 days]	OECD 302B [Inherent Biodegradability: Zahn-Wellens/EMPA Test]

Conclusion/Summary[Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
4,4'-methylenebis (cyclohexylamine)	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
4,4'-methylenebis (cyclohexylamine)	2.03	-	Low

Mobility in soil

Soil/water partition coefficient : 44.598 Koc

Other adverse effects

No known significant effects or critical hazards.



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.

Section 14. Transport information

	New Zealand	IMDG	IATA
UN number	UN2735	UN2735	UN2735
UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis (cyclohexylamine))	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis (cyclohexylamine))	Amines, liquid, corrosive, n.o.s. (4,4'-methylenebis (cyclohexylamine))
Transport hazard class(es)	8 	8 	8 
Packing group	II	II	II
Environmental hazards	No.	No.	No.

Additional information

New Zealand :  Strong alkali.
Hazchem code 2X
Special provisions 274

IMDG : **Emergency schedules** F-A, S-B
Special provisions 274

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851. Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities - Passenger Aircraft: 0.5 L. Packaging instructions: Y840.
Special provisions A3, A803

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.

Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

HSNO Approval Number : HSR003552

HSNO Group Standard : Not applicable.

HSNO Classification :

H302	ACUTE TOXICITY (oral) - Category 4
H330	ACUTE TOXICITY (inhalation) - Category 1
H314	SKIN CORROSION - Category 1C
H318	SERIOUS EYE DAMAGE - Category 1
H317	SKIN SENSITISATION - Category 1
H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

New Zealand Inventory of Chemicals (NZIoC) : This material is listed or exempted.

International regulations

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.

Section 16. Other information

History

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revision

Date of previous issue : 13/01/2025

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Sphera Solutions

Key to abbreviations :

- 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

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Section 16. Other information

IMDG = International Maritime Dangerous Goods
 IMO = International Maritime Organization
 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
 SGG = Segregation Group
 UN = United Nations

References

: Environmental Protection Authority - Inventory of Chemicals (NZIoC)
 Hazardous Substances Regulations 2001 (Classification, Identification, Minimum Degrees of Hazard)
 Hazardous Substances and New Organisms Act (HSNO) 1996 – Hazardous Substances List
 Health and Safety in Employment Act 1992 - Workplace Exposure Standards and Biological Exposure Indices
 Code of Practice for the Preparation of Safety Data Sheets (SDS)
 Transport of Dangerous Goods on Land (NZS 5433:2020)
 User Guide to the Thresholds and Classifications under the Hazardous Substances and New Organisms Act 1996 (GHS)
 GHS - Globally Harmonised System of Classification and Labelling of Chemicals
 International transport regulations

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.

