



Safety Data Sheet

Infosafe No™ IMER9	Issue Date : February 2020	ISSUED by IMCDAST
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Product Name : **Butanox LPT-IN**

Classified as hazardous

1. Identification

GHS Product Identifier	Butanox LPT-IN
Product Code	5405885
Company Name	IMCD Australia Pty Ltd (ABN 44 000 005 578)
Address	1st Floor, 372 Wellington Road Mulgrave VIC AUSTRALIA
Telephone/Fax Number	Tel: (03) 8544 3100 (Business hours) Fax: (03) 8544 3299
Emergency phone number	1800 625 526
Emergency Contact Address	NEW ZEALAND Emergency Response: 0800 500 288 IMCD New Zealand Limited 459 Great South Road Penrose, Auckland Ph: (09) 582 0250 Fax (09) 525 0030
E-mail Address	reg@imcd.com.au
Recommended use of the chemical and restrictions on use	Curing agent.
Additional Information	It is the user's responsibility to determine the suitability of this product for their applications and their methods of use.
Other Information	THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

2. Hazard Identification

GHS classification of the substance/mixture	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Flammable Liquids: Category 4 Organic Peroxides: Type D Acute Toxicity - Oral: Category 4 Acute Toxicity - Dermal: Category 5 Skin Corrosion/Irritation: Category 1B Eye Damage/Irritation: Category 1 Acute Toxicity - Inhalation: Category 4 STOT Single Exposure: Category 2 Germ Cell Mutagenicity: Category 2 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	H227 Combustible liquid. H242 Heating may cause a fire. H302 Harmful if swallowed. H313 May be harmful in contact with skin. H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled.

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Pictogram (s)

H341 Suspected of causing genetic defects .
 H371 May cause damage to organs .
 H411 Toxic to aquatic life with long lasting effects.
 Flame, Corrosion, Health hazard, Exclamation mark, Environment

**Precautionary statement – Prevention**

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 P220 Keep/Store away from clothing//combustible materials.
 P234 Keep only in original container.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P281 Use personal protective equipment as required.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P330 Rinse mouth.
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
 P391 Collect spillage.

Precautionary statement – Storage

P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P410 Protect from sunlight.
 P411+P235 Store at temperatures not exceeding 25 °C
 Keep cool.

Precautionary statement – Disposal Other Information

P420 Store away from other materials.
 P501 Dispose of contents/container according to local regulations.

Classified as Hazardous according to the criteria of the New Zealand HSNO Act.
 HSNO Approval Number: HSR002630
 Haz Classes: 3.1D, 5.2D, 6.1D (Oral & Inhalation), 6.1E (Dermal), 6.9B, 8.2B, 8.3A, 9.1B (Fish), 9.1C (Crustacean), 9.3C
 Group Standard: Organic Peroxides, Corrosive

3. Composition/information on ingredients

Information on Composition Chemical nature: Mixture

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di-isononyl phthalate	28553-12-0	45-65 %
Methyl ethyl ketone peroxide	1338-23-4	30-37 %
Methyl ethyl ketone	78-93-3	1-5 %

Other Information 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.

4. First-aid measures

First Aid Measures	Immediate medical attention is required. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
Inhalation	If breathed in, move person into fresh air. Consult a physician after significant exposure.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. Do not induce vomiting! May cause chemical burns in mouth and throat.
Skin	Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Eye contact	Rinse with plenty of water. Get medical attention immediately. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Indication of immediate medical attention and special treatment needed if necessary	Treat symptomatically.
Most important symptoms/effects, acute and delayed	The symptoms and effects are as expected from the hazards as shown in Section 2. No specific product related symptoms are known. Risks: Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes serious eye damage. May cause damage to organs if inhaled. Causes severe burns.
Other Information	Workplace facilities required: Explosion proof ventilation recommended. Effective exhaust ventilation system Ensure that eyewash stations and safety showers are close to the workstation location.

5. Fire-fighting measures

Suitable extinguishing media	Waterspray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	High volume water jet.
Hazards from Combustion Products	Fire will produce smoke containing hazardous combustion products (see Section 10).
Special Protective Equipment for fire fighters	In the event of fire, wear self-contained breathing apparatus.
Specific hazards arising from the chemical	CAUTION: reignition may occur. Supports combustion. Do not use a solid water stream as it may scatter and spread fire. Water spray may be ineffective unless used by experienced firefighters.

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Hazchem Code	Do not allow run-off from fire fighting to enter drains or water courses. Hazardous decomposition products formed under fire conditions. 2WE
Decomposition Temp.	SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Other Information	Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Emergency Procedures	Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene.
Methods and materials for containment and cleaning up	Prevent unauthorised persons entering the zone. Methods for cleaning up/Methods for containment: Soak up with inert absorbent material and dispose of as hazardous waste. Keep wetted with water. Confinement must be avoided. Never return spills in original containers for re-use.
Personal Precautions	Use personal protective equipment. Wear respiratory protection. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental Precautions	Prevent product from entering drains. If the product contaminates rivers and lakes or drains, inform relevant authorities.
Other Information	For disposal considerations see section 13. For personal protection see section 8.

7. Handling and storage

Precautions for Safe Handling	For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage, including any incompatibilities	Requirements for storage areas and containers: No smoking. Keep in a well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. Keep only in original container. Store away from other materials. Maximum storage temperature: 25 °C
Storage Temperatures	
Additional information on precautions for use	Advice on protection against fire and explosion: Use explosion protected equipment. Keep away from sources of ignition - No smoking. No sparking tools should be used. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Do not cut or weld on or near this container even when empty. Keep away from combustible material.

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Temperature class:
 It is recommended to use electrical equipment of temperature group T3.
 However, autoignition can never be excluded.
 No decomposition if stored and applied as directed.

Other Information**8. Exposure controls/personal protection**

Exposure Controls, Personal Protection The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment:
 Respiratory equipment: AS/NZS 1715, Protective Gloves: AS/NZS 2161, Industrial Clothing: AS 2919, Industrial Eye Protection: AS/NZS 1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS 2210.

Occupational exposure limit values

<u>Name</u>	<u>STEL</u>		<u>TWA</u>		<u>Footnote</u>
	<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
Methyl ethyl ketone peroxide			1.5	0.2	Peak limitation
Methyl ethyl ketone	890	300	445	150	

Appropriate engineering controls

Explosion proof ventilation recommended. Effective exhaust ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory Protection

In the case of vapour or aerosol formation use a respirator with an approved filter. Filter A

Eye Protection

Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Hand Protection

Neoprene, Nitrile rubber gloves

Body Protection

Protective suit.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.
 When using do not eat or drink.
 When using do not smoke.
 Wash hands before breaks and at the end of workday.

Other Information

Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

Form Liquid

Appearance Colourless.

Odour Faint.

Decomposition Temperature SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

Melting Point No data available.

Freezing Point No data available.

Boiling Point Decomposes below the boiling point.

Solubility in Water at 20 °C immiscible

Solubility in Organic Solvents Miscible with phthalates.

Specific Gravity 1.012 at 20°C

pH 4.0 - 6.0

Vapour Pressure Not determined.

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Vapour Density (Air=1)	No data available
Evaporation Rate	No data available
Odour Threshold	No data available.
Volatile Component	Not determined.
Partition Coefficient: n-octanol/water	No data available
Flash Point	Above the SADT value.
Flammability	Decomposition products may be flammable.
Auto-Ignition Temperature	Test methd not applicable
Flammable Limits - Lower	No data available
Flammable Limits - Upper	No data available
Explosion Limit - Upper	No data available
Explosion Limit - Lower	No data available
Explosion Properties	Not explosive.
Oxidising Properties	Not classified as oxidising.
Kinematic Viscosity	32.02 mm ² /s at 20°C
Dynamic Viscosity	32.4mPa.s at 20°C
Relative density	1.012 at 20 °C
Other Information	Self-Accelerating decomposition temperature(SADT): 60 °C Active oxygen content: 8.4 - 8.5% Peroxide content: 30 - 37%

10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical Stability	Stable under recommended storage conditions. Thermal decomposition: SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Conditions to Avoid	Heat, flames and sparks. Confinement must be avoided.
Incompatible Materials	Contact with the following incompatible materials will result in hazardous decomposition: Acids and bases, Iron, Copper, Reducing agents, Heavy metals, Rust Do not mix with peroxide accelerators, unless under controlled processing. Use only stainless steel 316, PP, polyethylene or glass-lined equipment. For queries regarding the suitability of other materials please contact the supplier.
Hazardous Decomposition Products	Carbon oxides, Formic acid, Acetic acid, Propionic acid, Methyl ethyl ketone
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.



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Other Information Self-Accelerating decomposition temperature (SADT): 60 °C

11. Toxicological Information

Acute Toxicity - Oral	LD50 Oral: 1,017 mg/kg Species: rats Method: OECD Test Guideline 401 Harmful if swallowed.
Acute Toxicity - Dermal	LD50: 4,000 mg/kg Species: Rabbit Method: OECD Test Guideline 402
Acute Toxicity - Inhalation	LC50 (Rat): 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Harmful if inhaled.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Suspected of causing genetic defects .
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	May cause damage to organs if inhaled.
STOT-repeated exposure	Not classified based on available information.
Aspiration Hazard	Not classified based on available information.
Health Hazard	<p>Potential Health Effects</p> <p>Inhalation: Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Harmful if inhaled.</p> <p>Skin: Symptoms may be delayed. May be harmful in contact with skin. Causes severe skin burns.</p> <p>Eyes: Causes serious eye damage.</p> <p>Ingestion: Harmful if swallowed. Causes burns.</p> <p>Aggravated Medical Condition: None known.</p> <p>Symptoms of Overexposure : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.</p> <p>Causes serious eye damage.</p>
Serious eye damage/irritation	Causes severe burns.
Skin corrosion/irritation	
Other Information	<p>Test result for Components</p> <p>Component: Diisononyl phthalate</p> <p>Acute oral toxicity : LD50: > 5,000 mg/kg</p> <p>Species: Rat</p> <p>Skin irritation:</p> <p>Result: No skin irritation</p> <p>Eye irritation:</p> <p>Result: No eye irritation</p> <p>Aspiration toxicity: No aspiration toxicity classification</p> <p>Component: Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane</p> <p>Acute oral toxicity: LD50: 1,017 mg/kg</p> <p>Species: Rat</p> <p>Acute inhalation toxicity :</p>

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LC50 (Rat): 1.5 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Acute dermal toxicity:
 LD50: 4,000 mg/kg
 Species: Rat
 Skin irritation:
 Result: Causes burns.
 Target Organ Systemic Toxicant - Single exposure:
 Exposure routes: Inhalation
 The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
 Aspiration toxicity: No aspiration toxicity classification
 Eye irritation:
 Result: Risk of serious damage to eyes.
 Carcinogenicity: No data available
 Reproductive toxicity/Fertility:
 Species: Rat, male and female
 Application Route: Oral
 Dose: 0 25, 50, 75 milligram per kilogram
 General Toxicity - Parent: No observed adverse effect level: 50 mg/kg bw/day
 General Toxicity F1: No observed adverse effect level F1: 50 mg/kg bw/day
 Fertility: No observed adverse effect level Parent: 75 mg/kg bw/day
 Method: OECD Test Guideline 421
 GLP: yes
 Target Organ Systemic Toxicant - Repeated exposure:
 The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

 Aspiration toxicity: No aspiration toxicity classification
 Component: Methyl ethyl ketone
 Acute oral toxicity:
 LD50: 2,737 mg/kg
 Species: Rat
 Acute dermal toxicity:
 LD50: 6,480 mg/kg
 Species: Rabbit
 Skin irritation:
 Result: Repeated exposure may cause skin dryness or cracking.
 Moderately irritating.
 Eye irritation:
 Result: Irritating to eyes.

12. Ecological information

Ecological Information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.
Ecotoxicity	Product Test result Ecotoxicity effects Toxicity to fish: LC50: 44.2 mg/l Exposure time: 96 h Species: Poecilia reticulata (guppy) Test Type: semi-static test Toxicity to daphnia and other aquatic invertebrates: EC50: 39 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test Type: Immobilization Toxicity to algae:

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ErC50: 5.6 mg/l
 Exposure time: 72 h
 Species: Pseudokirchneriella subcapitata (algae)
 Test Type: Growth inhibition

Toxicity to bacteria:
 EC10: 12 mg/l
 Exposure time: 0.5 h
 Species: activated sludge
 Test Type: Respiration inhibition
 Method: Domestic OECD Guideline 209
 Component Test result
 Component: Diisononyl phthalate
 Ecotoxicity effects
 Toxicity to daphnia and other aquatic invertebrates:
 EC50: > 500 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 Toxicity to algae:
 ErC50: > 88 mg/l
 Exposure time: 72 h
 Species: Desmodesmus subspicatus (green algae)
 Test Type: Growth inhibition
 Method: OECD Test Guideline 201
 No toxicity at the limit of solubility
 NOEC: > 88 mg/l
 Exposure time: 72 h
 Species: Desmodesmus subspicatus (green algae)
 Test Type: Growth inhibition
 Method: OECD Test Guideline 201
 No toxicity at the limit of solubility
 Toxicity to fish (Chronic toxicity): NOEC: 18,5 - 24,5
 Exposure time: 284 d
 Species: Oryzias latipes (Orange-red killifish)
 Test Type: flow-through test
 Method: OECD Test Guideline 210
 Component: Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane
 Ecotoxicity effects Toxicity to fish:
 LC50: 44.2 mg/l
 Exposure time: 96 h
 Species: Poecilia reticulata (guppy)
 Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates: 39 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 Test Type: Immobilization
 Toxicity to algae:
 ErC50: 5.6 mg/l
 Exposure time: 72 h
 Species: Pseudokirchneriella subcapitata (algae)
 Test Type: Growth inhibition

Toxicity to bacteria:
 EC10: 12 mg/l
 Exposure time: 0.5 h
 Species: activated sludge
 Test Type: Respiration inhibition
 Method: Domestic OECD Guideline 209
 Component: Methyl ethyl ketone

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Persistence and degradability	Ecotoxicity effects Toxicity to fish: LC50: 3,220 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish) Component: Diisononyl phthalate Biodegradability Result: Readily biodegradable. Component: Methyl ethyl ketone peroxide; Reaction mass of butane -2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane Biodegradability Result: Readily biodegradable. Method: Closed Bottle test Component: Methyl ethyl ketone Biodegradability: Readily biodegradable.
Mobility	No information available.
Bioaccumulative Potential	Component: Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane Bioaccumulation: Bioconcentration factor (BCF): 10.3 Not expected considering the low log Pow value.
Other Adverse Effects	No information available.

13. Disposal considerations

Disposal Considerations	Dispose of waste according to applicable local, state and federal regulations.
Product Disposal	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local regulation.
Container Disposal	Empty remaining contents. Dispose of as unused product. Do not burn, or use a cutting torch on, the empty drum. Due to the high risk of contamination recycling/recovery is not recommended. Follow all warnings even after the container is emptied.

14. Transport information

Transport Information	NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005.
U.N. Number	3105
UN proper shipping name	ORGANIC PEROXIDE TYPE D, LIQUID - (Methyl ethyl ketone peroxide)
Transport hazard class(es)	5.2
Hazchem Code	2WE
EPG Number	5K1
IERG Number	32
Marine Pollutant	No.
Other Information	Dangerous Goods of Class 5.2 Organic Peroxides are incompatible in a placard load with any of the following: - Class 1, Class 2, Class 3, Class 4, Class 5.1, Class 7, Class 8, Fire risk substances and combustible liquids.

15. Regulatory information

Regulatory Information	All components of this material are listed on or exempt from the New Zealand Inventory of Chemicals (NZIoC).
Poisons Schedule	S5
HSNO Approval Number	HSR002630



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AICS (Australia) All components of this material are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. Other Information

Contact Person/Point An electronic version of this SDS is available at www.imcdgroup.com

Other Information

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition
 AICS: Australian Inventory of Chemical Substances
 ASCC: Office of the Australian Safety and Compensation Council
 BCF: Bioconcentration Factor
 CAS number: Chemical Abstracts Service Registry Number
 CMR: Carcinogenic, Mutagenic or toxic to Reproduction
 DMEL: Derived Minimum Effect Level
 DNEL: Desired NO Effect Level
 EPA: Environmental Protection Agency
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 Hazchem Code: Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
 IARC: International Agency for Research on Cancer
 IOELV: Indicative Occupational Exposure Limit Value
 LC50: Lethal Concentration, 50 percent
 LD50: Lethal Dose, 50 percent
 NICNAS: National Industrial Notification & Assessment Scheme
 NIOSH: National Institute for Occupational Safety & Health
 NOAEL: No Observed Adverse Effect Level
 NOEC: No Observed Effect Concentration
 NOS: Not otherwise specified
 NTP: National Toxicology Program (USA)
 OEL: Occupational Exposure Limit
 OSHA: Occupational Safety & Health Administration
 PBT: Persistent Bioaccumulative Toxic chemical
 PMCC: Pensky Martens Closed Cup
 PNEC: Predicted No Effect Concentration
 R-Phrase: Risk Phrase
 STEL: Short Term Exposure Limit
 STOT-SE: Specific Target Organ Toxicity (Single Exposure)
 STOT-RE: Specific Target Organ Toxicity (Repeated Exposure)
 SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons
 TWA: Time Weighted Average
 UN Number: United Nations Number
 vPvB: Very Persistent and Very Bioaccumulative
 WEEL: Workplace Environmental Exposure Level
 WEL-TWA: Workplace Exposure Limit, Time Weighted Average
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