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FOR FURTHER INFORMATION, PLEASE REFER TO THE SDS FOLLOWING

Issue: January 2024

PRODUCT:	Toluene
Other Names:	Methyl benzol, methyl benzene
Uses:	Industrial solvent
Signal Word:	DANGER

UN No.	1294
Dangerous Goods Class	3
Subsidiary Risk	None
Pack Group	II
Hazchem	3YE

Hazardous Nature:	This product is classified as hazardous under GHS (7th revised edition) in acordance with the New Zealand Hazardous Substances (Hazard Classification) Notice 2020
Hazardous Classification:	Flammable liquids, Cat. 2; Acute toxicity - Oral, Cat. 4; Acute toxicity - Inhalation, Cat. 4; Skin irritation, Cat. 2; Eye irritation, Cat. 2; Reproductive toxicity, Cat. 2; Specific target organ toxicity - repeated exposure, Cat. 2, Aspiration hazard, Cat. 1
HSNO Approval Number:	HSR001227
NZ Exposure Standards:	TWA: 75 mg/m3 (20 ppm): STEL: 377 mg/m3 (100 ppm)

Physical Characteristics (Typical) — Section 9 of SDS

Appearance	Clear, colourless liquid
Boiling Point/ Range (°C):	111
Flash Point (°C):	4
Specific Gravity/ Density (g/mL):	0.87
Chemical Stability:	Stable at room temperature and pressure

Product Ingredients — Section 3 of SDS

Toluene	108-88-3	>99%

For further ingredients information, please refer to the full SDS.

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GHS Pictograms **Section 2 of SDS**

For further ingredients information, please refer to the full SDS.

DEFINITIONS

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993. Products not classed as Dangerous Goods are designated as not regulated for transport or N/R (non-regulated).
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc. Materials classified with risks such as potential for misuse, like flammability, or explosions when heated and ignited, may be both classed as Dangerous Goods and Hazardous Substances.

SUMMARY INFORMATION ONLY

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SAFETY DATA SHEET

1. IDENTIFICATION

Product Name:	**TOLUENE**
Other Names:	Methyl benzol, methyl benzene
Chemical Family:	Aromatic hydrocarbon
Recommended Use:	Industrial solvent
Supplier:	TMK Packers Ltd
Street Address:	2/20 Trugood Drive, East Tamaki. PO Box 258 031, Botany, Manukau 2163
Telephone:	(+64) 9 273 3753
Emergency phone:	**0800 273 327 (24 HR, TMK Packers)**
National Poisons Centre:	0800 764 766

2. HAZARDS IDENTIFICATION

Hazardous Nature
This product is classified as hazardous under GHS (7th revised edition) in accordance with the New Zealand Hazardous Substances(Hazard Classification) Notice 2020

Hazardous Classification
Flammable liquids, Cat. 2; Acute toxicity - Oral, Cat. 4; Acute toxicity - Inhalation, Cat. 4; Skin irritation, Cat. 2; Eye irritation, Cat. 2;Reproductive toxicity, Cat. 2; Specific target organ toxicity - repeated exposure, Cat. 2, Aspiration hazard, Cat. 1

GHS Pictograms

Signal Word DANGER

Dangerous Goods Classification 3

Hazard Statements
H225: Highly Flammable liquid and vapour.
H302 + H332: Harmful if swallowed or if inhaled.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin Irritation.
H319: Causes serious eye irritation.
H361: Suspected or damaging fertility or the unborn child
H373: May cause damage to organs through prolonged or repeated exposure.

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Precautionary Statements
P201: Obtain special instruction before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use Explosion-proof electrical/ventilating/lighting/…/equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: West Protective gloves/clothing and eye/face protection.

Response Statements
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
P330: Rinse mouth.
P331: Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P363: Wash Contaminated clothing before reuse.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTRE/doctor/…/if you feel unwell.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue Rinsing.
P337 + P313: If eye irritation persists get medical advice/attention.
P308 + P313: If exposed or concerned: Get medical advise/attention.
P370 + P378: In case of fire: Use dry chemical, carbon dioxide, foam, water spray or fog to extinguish.

Storage Statements
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store Locked Up.

Disposal Statements:
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

3. COMPOSITION: Information on ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Toluene	108-88-3	>99

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4. FIRST AID MEASURES

For advice, contact National Poisons Centre (Phone New Zealand: 0800 764 766) or a doctor.

Inhalation

Move the victim to fresh air and keep at rest in a position comfortable for breathingBegin artificial respiration if breathing has stopped. Seek Medical attention.

Skin/Hair Contact

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice.Launder contaminated clothing before re-use.

Eye Contact

Hold eyelids apart and flush the eye with running water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion

If swallowed, do NOT induce vomiting. Obtain immediate medical advice. If vomiting occurs spontaneously, keep head below hips toprevent aspiration into lungs.

Most Important Symptoms and Effects

Material is harmful if swallowed or inhaled and is irritating to skin and eyes.

First Aid facilities

Provide eye baths and safety showers.

Medical Attention

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

This material, or a component, may be associated with cardiac sensitization following very high exposures (well above occupational exposure limits) or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine. Administration ofsuch substances should be avoided.

5. FIRE FIGHTING MEASURES

Shut off product that may ‘fuel’ a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Water spray, water fog or fine mist, alcohol foam.

Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.

Specific Hazards Arising from the Material

Highly flammable liquid and vapour. Vapour is heavier than air and may travel across ground and reach remote ignition sources causing a flash back danger. Will float and can be reignited on surface water - prevent extinguishing media from escaping to drainsand waterways.

Hazards from combustion products

Toxic/irritating fumes and gases including carbon dioxide and carbon monoxide from incomplete combustion.

Fire-fighting Precautions

Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapour and to protect personnel attempting to stop aleak. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Keep adjacent containers cool by spraying with water.

Special Protective Equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code: 3YE

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent material from escaping to drains and waterways. Contain leaking packaging in a containment vessel. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Personal Precautions

Avoid contact with spilt product. Isolate hazard area. Prevent entry by unnecessary or unprotected personnel. Vapour/air mixtures may ignite explosively. Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum.

For small spills, allow residues to evaporate, or absorb with sand, earth or inert absorbent and dispose contaminated material safely. Do not flush away with water.

Environmental Precautions

Prevent spillage from entering drains or water courses.

Methods and Materials for Containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapour-suppressing foam may be used to reduce vapour. Use clean non-sparkingtools to collect absorbed material. Large Spills: Water spray may reduce vapour but may not prevent ignition in enclosed spaces.
Recover by pumping or with suitable absorbent.

Major land spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire/explosion or toxicity hazard.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on ground water.
- Contain any spilled liquid with sand or earth.
- Recover liquid spills by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Recover solid spills by mechanical collection methods; cover and prevent dusts or particles from spreading – consider wettingthe product down, without diluting it – and vacuum or sweep up.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major water spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire/explosion or toxicity hazard.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

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7. HANDLING AND STORAGE

Precautions for safe handling

This product is highly flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

Do not use compressed air for filling, discharging or handling. Electrostatic charges may be generated during pumping; this may cause a fire. Restrict line velocity during pumping. Avoid splash filling. Avoid breathing vapours or contact with product. Avoid contact with skin. Eyes and clothing. Use only in well ventilated areas. Wear personal protective equipment (e.g. overalls, gloves, safety glasses). Wash thoroughly after handling and before eating, drinking, smoking and using the toilet.

Conditions for safe storage

Store in tightly closed original container in a dry, cool and well-ventilated place.

Storage compatibility

Avoid contact with natural rubber, butyl rubber, EPDM, polystyrene, polyethylene, PVC, polypropylene, polyacrylonitrile. Suitable materials: mild steel or stainless steel, carbon steel, polyester, Teflon

See also: Section 10 – Stability and Reactivity for further information on incompatible materials

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards

New Zealand: *Workplace Exposure Standards and Biological Exposure Indices, Edition 13: April 2022*

TWA:	75 mg/m^3 (20 ppm)Octane: 1400 mg/m^3 (300 ppm)
STEL:	377 mg/m^3 (100 ppm)
Advisory information	Skin, Oto

Australia: *Workplace Exposure Standards for Airborne Contaminants, 16 December 2019*

TWA:	191 mg/m^3 (50 ppm)
STEL:	574 mg/m^3 (150 ppm
Advisory information	Sk

International:

Singapore PELs (2006): TWA 188 mg/m^3 (50 ppm); ACGIH (2010): TWA 20 ppm

The time weighted average (TWA) exposure standard is the highest allowable average airborne concentration of a particular substance when calculated over an eight-hour working day.

The short-term exposure limit (STEL) exposure standard is the maximum allowable exposure concentration for a substance during any 15-minute period in the working day.

Products may be identified as carcinogens, respiratory or skin sensitisers, ototoxins, or easily absorbed to the skin according to the below notations.

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6.7A/Carcinogen Category 1: Known or presumed human carcinogen

6.7B/Carcinogen Category 2: Suspected human carcinogen

Carc 1A: Known to have carcinogenic potential for humans

Carc. 1B: Presumed to have carcinogenic potential for humans

Carc. 2: Suspected human carcinogen

Skin/Sk: Substance is considered to have potential for significant skin absorption, risking overexposure.

Oto: Substance can cause hearing loss. This may be in conjunction with noise exposure or without concurrent noise exposure. Risk may be via inhalation or skin absorption.

Sen: Substance is identified as having potential to cause respiratory and/or dermal sensitisation – an allergic reaction or hypersensitivity affecting skin (dsen) or respiratory system (rsen). High exposure may hasten the onset of the allergy, but once developed in an individual, very low exposures can provoke a significant reaction.

Biological Limit Values

BEI Toluene: 0.03mg/L in urine at end of exposure or end of shift

BEI o-Cresol in urine (following hydrolysis): 0.3 mg/g creatinine at end of exposure or end of shift.

Engineering Controls

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Respiratory protection:

If engineering controls do not maintain airborne contaminant concentrations at a level adequate to protect worker health, it is recommended to use an apporved half-face or full-face filter mask to protect from overexposure by inhalation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Recommended filter type:

Type A filter material (organic vapour)

Refer to AS/NZS 1715: *Selection, Use and Maintenance of Respiratory Equipment* and AS/NZS 1716*: Respiratory Protective Devices*

for further details on the use of respiratory protective equipment.

Eye protection:

Wear safety glasses with side shields

Skin/ body protection:

Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product.

Wear chemical resistant gloves (nitrile, polyvinyl chloride (PVC)

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Odour	-	Aromatic

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Odour threshold	ppm	Not available
Melting Point/Freezing Point	°C	Not available
Boiling Point/ Range	°C	111
Flash Point	°C	4
Flammability	-	Highly flammable
Explosive Limits (LEL – UEL)	%	1.3 – 6.7
Vapour Pressure @21.1°C @26.6°C @38°C	kPa	3.089 4.13 7
Vapour Density (Air = 1) @101 kPa	-	>1
Specific Gravity / Density	g/mL	0.87
Autoignition Temperature	°C	480
Decomposition Temperature	°C	Not available
pH	-	Not available
Kinematic Viscosity @20°C @25°C	cSt	0.64 0.58
Solubility with Water@ 20°C	% w/w	0.05 (Negligible)
Other Solubility	% w/w	Not available
Partition Coefficient: n-octanol/water	-	Not available
Particle Characteristics	-	Not available
Percent Volatiles	%	100
Other Information	-	Evaporation Rate (nBuAc = 1): 2.4

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Reactivity

No reactivity hazards identified.

Chemical Stability

Stable at room temperature and pressure.

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials

Strong oxidisers

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and other organic complexes on incomplete burning or oxidation.

Hazardous Reactions

Oxidizing agents, mineral acids, halogenated organic compounds and peroxides.

Hazardous Polymerisation

Will not occur.

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11. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Acute Effects

Ingestion

This material will cause irritation to the throat and tube to the stomach and may cause nausea. Vomiting may cause the product to be aspirated to the lungs possibly resulting in chemical pneumonitis.

Inhalation

Harmful by inhalation. Vapours will cause dizziness and drowsiness. There is the possibility of organ damage over prolonged use or exposure. Central Nervous System depression includes nausea, headaches, dizziness, and possibly loss of consciousness, coma and even death.

Skin Contact

Harmful in contact with skin. Symptoms include burning sensation, redness, swelling and possible blistering

Eye Contact

Eye contact with this product will cause redness and swelling with a burning sensation and blurred vision.

Chronic Effects

Repeated over exposure may cause hemolysis of the red blood cells leading to possible liver and kidney damage. There is evidence of potentially irreversible damage to the peripheral nervous system, particularly arms and legs. Any existing dermatitis may be exacerbated by exposure to this product. Prolonged contact with this product will result in irritant contact dermatitis if care is not taken to wash affected areas. EPA NZ have classified toluene as a reproductive toxicant; suspected of damaging fertility or the unborn child, and as a specific target organ toxicant substance; may cause damage to organs and systems through prolonged or repeated exposure by inhalation.

Other Health Effects Information

Persons with pre-existing liver, kidney, central nervous system or skin complaints should avoid unnecessary exposure to this product. Every effort to protect eyes, respiratory tract and skin exposure should be taken in these circumstances. The potential for adverse effects through exposure to this product are increased when in combination with ethanol. This means the adverse effects as described under Ingestion or Inhalation will be increased or experienced more quickly.

Toxicological Information

Acute Toxicity - Oral: Harmful if swallowed.

LD_{50}: 636 mg/kg (rat)

Acute Toxicity – Dermal: Not classified as acutely toxic by skin contact.

LD50: >2000 mg/kg (rabbit)

Acute Toxicity – Inhalation: Harmful if inhaled.

LC_{50}: 12.5 mg/L/4 h (rat)

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye damage/irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

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Specific Target Organ Toxicity (STOT) – Single Exposure: Not classified.

Specific Target Organ Toxicity (STOT) – Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic Toxicity

Toxic to aquatic life with long lasting effects

Fish toxicity:	LC_{50} (rainbow trout): 5.8 mg/L/96 h
Crustacean toxicity):	LC_{50} (daphnia magna): 11.5 mg/L/48 h
Algae toxicity:	EC_{50} (Selenastrum capricornutum, growth): 12.5 mg/L/72 h

Terrestrial Ecotoxicity

Not classified as hazardous to the terrestrial environment

Persistence/Degradability

Expected to be readily biodegradable.

Log P: 2.73 - volatilises in air.

Bioaccumulative Potential

Not expected to bioaccumulate significantly

Mobility in Soil

Product is highly volatile and mobile in soil. Expected to evaporate to air if released in water.

Other adverse effects

No additional adverse effects identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Disposal of hazardous waste must be carried out in compliance with all applicable regional and national regulations. This product is NOT suitable for disposal by domestic landfill or via municipal sewers, drains, natural streams or rivers. It must be disposed as chemical waste in accordance with the local authority.

Ensure that disposal of this product and its packaging is in accordance with the Hazardous Substances (Disposal) Notice 2017. Refer to Section 8 of this SDS for precautions before carrying out disposal or recycling activities.

Product Disposal

Dispose of products as chemical waste via a licensed service provider.

Packaging Disposal

Empty packaging should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain harmful residue and/or fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry.

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14. TRANSPORT INFORMATION

Road and Rail Transport (NZS 5433)		Marine Transport (IMDG)		Air Transport (IATA)	
UN No.	1294	UN No.	1294	UN No.	1294
Proper Shipping Name	TOLUENE	Proper Shipping Name	TOLUENE	Proper Shipping Name	TOLUENE
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	II	Packing Group	II	Packing Group	II

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group II.

Please consult the *New Zealand Standard for Transport of Dangerous Goods on Land* (NZS 5433:2020) for further information.

Environmental Hazards

Marine Pollutant: No

Special Precautions

-

Additional Information

-

Hazchem Code: 3YE

Marpol 73/78 Convention – Annex II

Product Name: Not determined

Ship Type: -

Pollution: -

15. REGULATORY INFORMATION

Country/ Region: New Zealand

Inventory: New Zealand Inventory of Chemicals **(**NZIoC)

Status: Listed in NZIoC

HSNO Approval:

HSR002650: Solvents (Flammable) Group Standard 2020

Classification

GHS classification: Flammable liquids, Cat. 2; Acute toxicity - Oral, Cat. 4; Acute toxicity - Inhalation, Cat. 4; Skin irritation, Cat. 2; Eyeirritation, Cat. 2; Reproductive toxicity, Cat. 2; Specific target organ toxicity - repeated exposure, Cat. 2, Aspiration hazard, Cat. 1

Equivalent HSNO classification: 3.1B, 6.1D (oral, inhalation), 6.1E (aspiration), 6.3A, 6.4A, 6.8B, 6.9B

HSNO/HSWA Controls:

Refer to the above Group Standard, Health and Safety at Work Act 2015, www.epa.govt.nz and www.worksafe.govt.nz for furtherinformation on controls

Certified Handler: Not required

Tracking: Not required

Restriction to workplace: Not applicable

Signage: Threshold quantity: 250L

Fire extinguishers: Threshold quantity: 250L

Emergency Response Plan: Threshold quantity: 1,000L

Secondary containment: Threshold quantity: 1,000L

Hazardous Substance Location requirements:
100L (closed containers greater than 5 L); 250 L (closed containers up to andincluding 5 L); 50 L (open containers)

Agricultural Compounds and Veterinary Medicines Act 1997 (ACVM)

Not applicable

International Agreements

Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable

Stockholm Convention: Not applicable

Rotterdam Convention: Not applicable

Basel Convention: Not applicable

International Inventory Status:

Australian Inventory of Industrial Chemicals: Listed in AICIS Inventory

International Inventories:

Complies with: PICCS, ENCS,TSCA, IECSC, KECI, DSL

16. OTHER INFORMATION

SDS Version Number: 7

Reasons for Issue: Update to New GHS Format

Replaces SDS dated: 30th November 2024

New SDS issue date: 31st January 2024

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Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

AS/NZS: Standards Australia & Standards New Zealand

BCF: Bioconcentration Factor BEI: Biological Exposure Index CAS:

Chemical Abstracts Service

CCID: Chemical Classification and Information Database

EC50: Effective Concentration, 50 per cent

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GHS 7: Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations

HSNO: Hazardous Substances and New Organisms Act 1996

HSWA: Health and Safety at Work Act 2015

IARC: International Agency for Research on Cancer

IC50: Half Maximal Inhibitory Concentration

LC50: Lethal Concentration, 50 per cent

LD50: Lethal Dose, 50 per cent

LEL: Lower Explosive Limit

LOAEL: Lowest-observed-adverse-effect level

N/R: Not Regulated

NOAEL: No-observed-adverse-effect-level

NOEC: No Observed Effect Concentration

NZIoC: New Zealand Inventory of Chemicals

NZS 5433 New Zealand Standard Transport of Dangerous Goods on Land

OECD: Organisation for Economic Co-operation and Development

STEL: Short-Term-Exposure Limit

TLV: Threshold Limit Value

TWA: Time-Weighted Average

UEL: Upper Explosive Limit

References:

- Supplier Safety Data Sheets
- EPA CCID https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/
- Workplace Exposure Standards and Biological Exposure Indices. 12th Edition, published by WorkSafe New Zealand November 2020. https://worksafe.govt.nz/topic-and-industry/work-related-health/monitoring/exposure-standards-and-biological- exposure-indices
- US NLM ChemIDPlus: https://chem.nlm.nih.gov/chemidplus/
- OECD eChemPortal Substance Search https://www.echemportal.org/echemportal/

END OF SAFETY DATA SHEET