



Good bonds last.

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Loxeal 18-10
Product Use: Adhesive/Sealant
Restrictions of use: Refer to Section 15

New Zealand Supplier: Sabre Adhesives Ltd
Address: 42 Cambridge Street
Levin, 5510, New Zealand
Telephone: +64 (0)6 366 0007
Emergency No: **0800 764 766 (National Poison Centre)**

Australian Supplier: Sabre Adhesives Ltd
Address: Level 6, 10 Herb Elliot Avenue,
Sydney, NSW, 2127
Telephone No: +61 2 9098 8244
Emergency No: **13 11 26 (National Poison Line)**

Date SDS Issued: 14 July 2022 v2

Section 2. Hazards Identification

Australia:

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

New Zealand:

Classified as hazardous as per EPA Hazardous Substances (Classification) Notice 2020.

NZ - EPA Approval Code: Surface Coatings and Colourants (subsidiary) - HSR002670

Pictograms



SIGNAL WORD: Warning

GHS Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
specific target organ toxicity – single exposure Cat. 3 respiratory tract irritation	H335	May cause respiratory irritation.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Product Name: Loxeal 18-10
Date of SDS: 14 July 2022

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: +64 9 475 5240 www.techcomp.co.nz

Prevention Code Prevention Statement

P103	Read label before use.
P261	Avoid breathing fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code Response Statement

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove 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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code Storage Statement

P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal Code Disposal Statement

P501	Dispose of according to the local authorities
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Section 3. Composition of hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Hydroxypropyl methacrylate	5-10	27813-02-1
Dodecyl Methacrylate	5-10	142-90-5
Cumene hydroperoxide	1-2.5	80-15-9
Ethanediol	1-3	107-21-1

Section 4. First Aid Measures

Routes of Exposure:

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.
If on Skin	Rinse skin with water/shower. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: Get medical advice/attention.
If Swallowed	Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. If vomiting occurs, give further water and get to a doctor or hospital quickly. Get medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position

and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Eye contact: Causes serious eye irritation. Irritating and may cause redness and pain

Ingestion: Not applicable.

Inhalation: May cause respiratory irritation.

Skin: May cause an allergic skin reaction. Mild dermatitis.

Notes to doctor: No specific recommendations. Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable.
Hazards from products	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.
Suitable Extinguishing media	Foam, carbon dioxide or dry powder. Unsuitable: Water
Precautions for firefighters and special protective clothing	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear protective clothing as described in Section 8 of this safety data sheet.

Absorb with sand or other inert absorbent. Transfer to a container for disposal.

Do not allow to enter waterways. Dispose of according to Local Regulations.

Section 7. Handling and Storage

Handling:

- Read label before use.
- Avoid breathing fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Avoid contact with skin and eyes.
- Avoid eating, drinking and smoking when using the product.

Storage:

- Store in closed original container at temperatures between 5°C and 25°C.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Keep out of reach of children.
- Never return unused material to storage receptacle.
- This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.
- Store away from incompatible materials listed in Section 10.

Exposure Limit Values:**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Ethylene glycol vapour & mist [107-21-1]				Ceiling 50 ppm (127 mg/m ³)

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

HYDROXYPROPYL METHACRYLATE (CAS: 27813-02-1)**DNEL**

Workers - Inhalation; Long term systemic effects: 14.7 mg/m³

Workers - Dermal; Long term systemic effects: 4.2 mg/kg/day

PNEC

Fresh water; 0.904 mg/l

marine water; 0.904 mg/l

STP; 10 mg/l

Sediment (Freshwater); 6.28 mg/kg

Sediment (Marinewater); 6.28 mg/kg

Soil; 0.727 mg/kg

CUMENE HYDROPEROXIDE (CAS: 80-15-9)**DNEL**

Workers - Inhalation; Long term systemic effects: 6 mg/m³

PNEC

Workers - Fresh water; 0.0031 mg/l

Workers - marine water; 0.00031 mg/l

Workers - Intermittent release; 0.031 mg/l

Workers, Industry - Soil; 1.2 mg/kg

Workers - STP; 0.35 mg/l

Workers - Sediment (Freshwater); 0.023 mg/kg

Workers - Sediment (Marinewater); 0.0023 mg/kg

Workers - Soil; 0.0029 mg/kg

ETHANEDIOL (CAS: 107-21-1)**DNEL**

Workers - Inhalation; Long term local effects: 35 mg/m³

Workers - Dermal; Long term systemic effects: 106 mg/kg/day

PNEC

Fresh water; 10 mg/l

marine water; 1 mg/l

STP; 199.5 mg/l

Sediment (Freshwater); 37 mg/kg

Sediment (Marinewater); 3.7 mg/kg

Soil; 1.53 mg/kg

Engineering Controls

Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local mechanical exhaust should be provided

Personal Protection Equipment



Eyes	Use approved safety goggles or face shield. Personal eye protection should conform to EN166
Hands	It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
Body	Uniforms, coveralls, or a lab coat should be worn
Respiratory	Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A. (EN14387)
Hygiene Measures	Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Use of good industrial hygiene practices is required.

Section 9 Physical and Chemical Properties

Appearance	White viscous liquid
Colour	Slightly pungent odour
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	$>100^{\circ}\text{C}$
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	1.0
Solubility	Insoluble in water. Soluble in the following materials: acetone
Partition Coefficient:	Not available
Auto Ignition temp	Not available
Oxidising	Not available
Viscosity	≈ 45000 mPa s @ 25°C Thixotropic

Section 10. Stability and Reactivity

Stability of Substance	Stable at normal ambient temperatures and when used as recommended.
Reactivity	The following materials may react with the product: Strong oxidising agents.
Conditions to Avoid	Avoid the absence of air, and metal contamination.
Incompatible Materials	Metals and their salts. Free radical initiators.
Hazardous Decomposition Products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	May cause respiratory irritation.
Eye	Causes serious eye irritation.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Hydroxypropyl Methacrylate	2000 mg/kg (rat)	5000 mg/kg (Rabbit)	-
Cumene Hydroperoxide	328mg/kg (rat)	1200 mg/kg (rat)	1.37 mg/L (rat) dust/mist
Ethanediol	3500mg/kg(mouse)	-	-

Section 12. Ecotoxicological Information

New Zealand:

Harmful to aquatic life with long lasting effects.

Persistence and degradability	No data available
Biodegradation	HYDROXYPROPYL METHACRYLATE Degradation 94.2%: 28 days CUMENE HYDROPEROXIDE The substance is readily biodegradable. ETHANEDIOL Water - Degradation 90 - 100%: 10 days
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

HYDROXYPROPYL METHACRYLATE	
Acute toxicity - fish	LC ₅₀ , 48 hours: 493 mg/l, <i>Leuciscus idus</i> (Golden orfe)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 380 mg/l, <i>Daphnia magna</i> □
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 24.1 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 97.2 mg/l, <i>Pseudokirchneriella subcapitata</i> NOEC, 72 hours: 97.2 mg/l, <i>Pseudokirchneriella subcapitata</i>
CUMENE HYDROPEROXIDE □	
Acute toxicity - fish	LC ₅₀ , 96 hour: 3.9 mg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout)
ETHANEDIOL	
Acute toxicity - fish	LC ₅₀ , 96 hours: 72860 mg/l, <i>Pimephales promelas</i> (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 100 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 6500 - 13000 mg/l, <i>Selenastrum capricornutum</i>
Acute toxicity - microorganisms	EC ₂₀ , 0.5 hour: 1.995 mg/l, Activated sludge

Do not allow to enter waterways

Section 13. Disposal Considerations

Disposal Method: Empty packaging completely prior to disposal. Place any recovered product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with local regulations.

Precautions: Ensure any container holding waste product, rinsate, or contaminated spill media is labelled "Hazardous Waste – Ecotoxic". Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in Australia; ADG 7
This product is NOT classified as a Dangerous Good for transport: NZS 5433:2020

Section 15 Regulatory Information

Australia:

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Poison Schedule No: Not Scheduled

New Zealand:

Classified as hazardous as per EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval Code: Surface Coatings and Colourants (subsidiary) - HSR002670

Trigger quantities for this substance:

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required

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Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

Cat	Category
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

Australia:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
6. American Conference of Industrial Hygienists (ACGIH).
7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made. Please contact the Australian Manufacturer or New Zealand distributor, if further information is required.

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