SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Loxeal 31-42**
Product Use:	Adhesive
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	Sabre Adhesives Ltd
Address:	42 Cambridge Street South 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:	12 August 2024

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:
This substance is hazardous according to the 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
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code **Prevention Statement**

P103	Read carefully and follow all instructions.
P261	Avoid breathing fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
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 SDS Section 8.

Response Code	**Response Statement**
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	**Storage Statement**
None allocated	

Disposal Code	**Disposal Statement**
P501	Dispose of according to the local authorities

Section 3. Composition of hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Epoxy Resin (Number average MW <= 700)	60 ≤ x < 100	1675-54-3

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Make sure you have removed any contact lenses before rinsing your eyes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on Skin — Take off contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

If Swallowed — Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

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:

Inhalation	Not applicable.
Ingestion	Not applicable.
Skin contact	Causes skin irritation. May cause an allergic skin reaction. Mild dermatitis.
Eye contact	Causes serious eye irritation.
Chronic	Causes damage to organs through prolonged or repeated exposure.

Notes to Doctor: Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable.
Hazards from products	Avoid breathing combustion products, carbon monoxide (CO), carbon dioxide (CO2), and nitric oxides (NOx).
Suitable Extinguishing media	Carbon dioxide, foam, powder and water spray.
Precautions for firefighters and special protective clothing	Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).
HAZCHEM CODE	**3Z**

Section 6. Accidental Release Measures

Wear protective clothing as described in Section 8. Ventilate spillage area. Avoid contact with skin and eyes.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

Collect the leaked product into a suitable container. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of as per Section 13.

Section 7. Handling and Storage

Handling:

- Read carefully and follow all instructions.
- Avoid breathing fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in SDS Section 8.
- Avoid leakage of the product into the environment.
- Do not eat, drink or smoke during use.
- Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

Storage:

- Store away from incompatible materials listed in Section 10.
- Store only in the original container.
- Store the containers sealed, in a well ventilated place, away from direct sunlight.
- Keep product in a cool and dry room at no more than +25°C.
- To avoid contaminations do not refill containers with used product.

Section 8 Exposure Controls / Personal Protection

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

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³

No ingredients have exposure limits

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 NOV 2023 14TH EDITION.

Epoxy Resin (Number average MW <= 700)

Predicted no-effect concentration – PNEC

Normal value in fresh water	0.006	mg/l
Normal value in marine water	0.001	mg/l
Normal value for fresh water sediment	0.341	mg/kg
Normal value for marine water sediment	0.034	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	11	mg/kg
Normal value for the terrestrial compartment	0.065	mg/kg

Health – Derived no-effect level – DNEL/DMEL

	Effects on Consumers	Effects on Workers
	Chronic Systemic	Chronic Systemic
Route of exposure		
Oral	0.5 mg/kg/d	
Inhalation	0.87 mg/m³	4.93 mg/m³
Skin	0.0893 mg/kg/d	0.75 mg/kg/d

Engineering Controls
As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

Personal Protection Equipment

Eyes	Wear airtight protective goggles (see standard EN ISO 16321).
Hands	Protect hands with category III work gloves. The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.
Skin	Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
Respiratory	Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1,

	2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.
General	Provide an emergency shower with face and eye wash station.

Section 9 Physical and Chemical Properties

Appearance	Colourless Liquid
Odour	Mild
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	$>100^0$C
Flammability	Not Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density	1.2
Solubility in water	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Viscosity - Dynamic	~15000 mPa.s @ 25^0C
Molecular weight	Not available
Volatile Compound	Not available

Section 10. Stability and Reactivity

Stability of Substance	The product is stable in normal conditions of use and storage.
Reactivity	Strong oxidizing agents, Reducing agents, strong acids and bases.
Conditions to Avoid	Protect from direct sunlight. Avoid contact with acids and oxidizing agents.
Incompatible Materials	Strong oxidizing agents, Reducing agents, strong acids and bases.
Hazardous Decomposition Products	By thermal decomposition, carbon monoxide, carbon dioxide and other unidentified organic compounds.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation. 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
Epoxy Resin (Number average MW <= 700)	>2000 mg/kg	>2000 mg/kg	-

Section 12. Ecotoxicological Information

Toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available on product **Epoxy Resin (Number average MW <= 700)** Not rapidly degradable.
Bioaccumulative	No data available on product
Mobility in soil	No data available on product
Other adverse effects	No data available on product

Toxicity
EPOXY RESIN (Number average MW <= 700)

LC50 - for Fish	2 mg/l/96h
EC50 - for Crustacea	1,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	11 mg/l/72h
Chronic NOEC for Crustacea	0,3 mg/l
Chronic NOEC for Algae / Aquatic Plants	4,2 mg/l

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:
Ensure containers are empty before discarding. Recycle where possible. Dispose as per Local Regulations.

Precautions and methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

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

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700))**
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

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:
This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

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

Controls in New Zealand:
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
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

EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	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 APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
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

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Please contact the Australian Manufacturer or New Zealand distributor, if further information is required.

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