

Safety Data Sheet

MAPEWRAP 31 SP part A

Safety Data Sheet dated: 12/03/2021 - version 1

Section 1. Identification of the substance and supplier

Product identifier

Mixture identification:

Trade name: MAPEWRAP 31 SP part A

Trade code: 9073237

Recommended use of the chemical and restrictions on use

Recommended use: Epoxy adhesive

Uses advised against: N.A.

Supplier's details

Company: MBP (NZ) Ltd. - 88 Carbine Road, Mount Wellington, Auckland 1060, New Zealand
enquiries@MBPLtd.co.nz - www.MBPLtd.co.nz

Emergency phone number

New Zealand Poisons Centre: Ph: 0800 764 766

Section 2. Hazards identification

HSNO hazard classification

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

HSNO classification:

- | | |
|------|---------------------------------------------------------|
| 6.3A | H315 - Causes skin irritation. |
| 6.4A | H319 - Causes serious eye irritation. |
| 6.5B | H317 - May cause an allergic skin reaction. |
| 9.1B | H411 - Toxic to aquatic life with long lasting effects. |

Hazard information

Pictograms and Signal Words



Warning

Hazard statements:

- | | |
|------|--------------------------------------------------|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements:

- | | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P261 | Avoid breathing mist/vapours/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 gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and 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. |
| P321 | Specific treatment (see supplementary instructions on this label). |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container in accordance with applicable regulations. |

Other hazards which do not result in a classification

No other hazards

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to

spray mist and vapour.

Section 3. Composition/information on ingredients

Substances

N.A.

Mixtures

Mixture identification: MAPEWRAP 31 SP part A

Hazardous components within the meaning of HSNO Act and related classification

Concentration (% w/w)	Name	Ident. Numb.	Classification
≥50 - <75 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	6.4A, H319; 6.3A, H315; 6.5B, H317; 9.1B, H411
≥10 - <20 %	bisphenol F - epoxy resin	CAS:9003-36-5 EC:500-006-8	6.3A, H315; 6.5B, H317; 9.1B, H411
≥5 - <10 %	1,6-Hexanediol Diglycidyl Ether	CAS:933999-84-9, 16096-31-4 EC:618-939-5	6.3A, H315; 6.4A, H319; 6.5B, H317; 9.1C, H412
≥5 - <10 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS:68609-97-2 EC:271-846-8 Index:603-103-00-4	6.3A, H315; 6.5B, H317

Section 4. First aid measures

Description of necessary first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

- (see paragraph 4.1)

Most important symptoms/effects, acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

Unsuitable extinguishing media:

- None in particular.

Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and materials for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

Section 7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Section 8. Exposure controls/personal protection

Workplace Exposure Standards

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	0.006 mg/l	Fresh Water		
		0.0006 mg/l	Marine water		
		0.0627 mg/kg	Freshwater sediments		
bisphenol F - epoxy resin	9003-36-5	0.00627 mg/kg	Marine water sediments		
		10 mg/l	Microorganisms in sewage treatments		
		0.003 mg/l	Fresh Water		
		0.294 mg/kg	Freshwater sediments		
		0.0003 mg/l	Marine water		
		0.0294 mg/kg	Marine water sediments		
		0.237 mg/kg	Soil		

1,6-Hexanediol Diglycidyl Ether	933999-84-9, 16096-31-4	1 mg/l	Microorganisms in sewage treatments
		0.0115 mg/l	Fresh Water
		0.283 mg/kg	Freshwater sediments
		0.00115 mg/l	Marine water
		0.0283 mg/kg	Marine water sediments
		0.223 mg/kg	Soil
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	0.00072 mg/l	Marine water
		0.0072 mg/l	Fresh Water
		66.77 mg/kg	Freshwater sediments
		6.677 mg/kg	Marine water sediments
		80.12 mg/kg	Soil
		10 mg/l	Microorganisms in sewage treatments

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	8.3 mg/kg			Human Dermal	Short Term, systemic effects	
		12.25 mg/m3			Human Inhalation	Short Term, systemic effects	
		8.3 mg/kg			Human Dermal	Long Term, systemic effects	
		12.25 mg/m3			Human Inhalation	Long Term, systemic effects	
				3.571 mg/kg	Human Dermal	Short Term, systemic effects	
				0.75 mg/kg	Human Oral	Short Term, systemic effects	
				3.571 mg/kg	Human Dermal	Long Term, systemic effects	
				0.75 mg/kg	Human Oral	Long Term, systemic effects	
1,6-Hexanediol Diglycidyl Ether	933999-84-9, 16096-31-4	2.8 mg/kg			Human Dermal	Long Term, systemic effects	
		4.9 mg/m3			Human Inhalation	Long Term, systemic effects	

Engineering Controls

N.A.

Personal Protective Equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; AS/NZS 2161.10:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Thermal Hazards:

N.A.

Section 9. Physical and chemical properties

Physical state: Liquid

Appearance and colour: Liquid transparent

Odour: Characteristic

Odour threshold: N.A.

pH: 11.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 200 °C (392 °F)

Flash point: 110 °C (230 °F)

Flammability (Solid, Gas): N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour pressure: 0.01

Vapour density: N.A.

Relative density: 1.00 g/cm³

Solubility in water: partly soluble

Solubility in oil: soluble

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 320.00 cPs

Kinematic viscosity: N.A.

Particle characteristics: No data available

Section 10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

Section 11. Toxicological information

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

reaction product: a) acute toxicity LD50 Oral Rat > 15000 mg/kg

bisphenol-A-
(epichlorhydrin); epoxy
resin (number average
molecular weight <=
700)

LD50 Skin Rabbit > 23000 mg/kg

LD50 Oral Rat = 11400 mg/kg

i) STOT-repeated
exposure

NOAEL Oral Rat = 50 mg/kg

NOAEL Skin Rat = 100 mg/kg

bisphenol F - epoxy resin a) acute toxicity

LD50 Oral Rat > 10000 mg/kg

LD50 Skin Rat > 2000 mg/kg

LD50 Oral Rat > 2 g/kg

i) STOT-repeated
exposure

NOAEL Oral = 250 mg/kg

1,6-Hexanediol Diglycidyl
Ether a) acute toxicity

LD50 Oral Rat = 2190 mg/kg

LD50 Skin Rabbit > 4900 mg/kg

i) STOT-repeated
exposure

NOAEL Oral = 200 mg/kg

NOAEL Inhalation = 16 mg/m³

oxirane, mono[(C12-14-
alkyloxy)methyl] derivs. a) acute toxicity

LD50 Oral Rat = 19200 mg/kg

LD50 Skin Rabbit > 4500 mg/kg

LD50 Skin Rabbit > 3987 mg/kg

LD50 Oral Rat = 17100 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- Toxicological kinetics, metabolism
and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

Section 12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS: 25068-38-6 - EINECS: 500-033-5 - INDEX: 603-074- 00-8	a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 1.8 mg/L 48

		a) Aquatic acute toxicity : LC50 Algae > 11 mg/L 72
		a) Aquatic acute toxicity : LC50 Daphnia = 1.3 mg/L 96
		b) Aquatic chronic toxicity : NOEC Daphnia = 0.3 mg/L
bisphenol F - epoxy resin	CAS: 9003-36-5 - EINECS: 500-006-8	a) Aquatic acute toxicity : EC50 Fish = 2.54 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 2.55 mg/L 48
1,6-Hexanediol Diglycidyl Ether	CAS: 933999-84-9, 16096-31-4 - EINECS: 618-939-5	a) Aquatic acute toxicity : EC50 Daphnia = 47 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish = 30 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = 23.1 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 30 mg/L 96h ECHA
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2 - EINECS: 271-846-8 - INDEX: 603-103-00-4	a) Aquatic acute toxicity : LC50 Fish > 5000 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = 843 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish > 1800 mg/L 96
		b) Aquatic chronic toxicity : NOEC Algae = 500 mg/L 72
		a) Aquatic acute toxicity : EC50 Daphnia = 10 mg/L

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Disposal of this product, solutions, packaging 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 nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Special precautions to be taken during disposal

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

Section 14. Transport information

UN number

3082

UN proper shipping name

NZS-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resins)

Transport hazard class(es)

NZS-Class: 9

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

Packing group, if applicable

NZS-Packing Group: III

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

Special precautions for user

NZS-Subsidiary risks: -

NZS-Special Dispositions: 274 331 335

Road and Rail (ADR-RID) :

ADR-Label: 9

ADR-Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA) :

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-EMS: F-A, S-F

These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids, or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to provisions of ADR, IMDG and IATA DGR.

Section 15. Regulatory information**HSNO Approval**

HSNO approval number and group standard title:

HSR002670 - Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006

HSNO Controls**Approved Handler**

No data available

New Zealand Inventory of Chemicals (NZIoC)

All components are listed on the NZIoC Inventory.

Regulatory references

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Hazardous Substances (Classification) Regulations 2001.

Labelling of Hazardous Substances: Hazard and Precautionary Information (January 2012 EPA0094).

Assigning a Product to a HSNO Approval (May 2013/Revised June 2014).

Section 16. Other information

Safety Data Sheet dated: 12/03/2021 - version 1

Code Description

Date 12/03/2021 Production Name MAPEWRAP 31 SP part A

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Description of the HSNO Classification codes used in section 2 or 3:

Code	Description
6.3A	Substances that are irritating to the skin.
6.4A	Substances that are irritating to the eye.
6.5B	Substances that are contact sensitisers.
9.1B	Substances that are ecotoxic in the aquatic environment.
9.1C	Substances that are harmful in the aquatic environment.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

HSNO: Hazardous Substances and New Organisms Act 1996.