

Section 1: Identification of the substance and supplier

Product identifier

Mixture identification:

Trade name: EPOJET LV /A

Trade code: 901575

Recommended use of the chemical and restrictions on use

Recommended use: Epoxy resins

Uses advised against: Data not available.

Supplier's details

Company: MBP (NZ) Ltd. - 88 Carbine Road - Mount Wellington - 1060 - Auckland - New Zealand

Phone: +64 9 921 1994 (Mon-Fri 9am-5pm) - Fax: +64 9 921 1993

Responsible: enquiries@MBPLtd.co.nz - www.MBPLtd.co.nz

Emergency phone number

New Zealand National Poisons Centre: Phone 0800 764 766 (for acute poisoning situations)

Chemcall: Phone 0800 243 622 (for chemical based incidents-emergencies)

Section 2: Hazards identification

HSNO 2020 (7th GHS UN rev.) hazard classification

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020

Hazard classification

Skin irritation, Category 2

H315 - Causes skin irritation.

Eye irritation, Category 2

H319 - Causes serious eye irritation.

Skin Sensitisation, Category 1B

H317 - May cause an allergic skin reaction.

Reproductive toxicity, Category 1

H360.G - May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.

Chronic (long term) aquatic hazard, category 2

H411 - Toxic to aquatic life with long lasting effects.

Hazard information

Hazard pictograms and Signal Word



Danger

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

Contains

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Formaldehyde, oligomeric reaction products
with 1-chloro-2,3-epoxypropane and phenol

1,6-Hexanediol Diglycidyl Ether

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

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: EPOJET LV /A

Hazardous components within the meaning of HSNO Act and related classification

Qty	Name	Ident. Numb.	Classification
≥25 - <50 %	bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS:1675-54-3, 25085-99-8 EC:216-823-5 Index:603-073-00-2	3.2/2, H315; 3.4.2/1, H317; 3.3/2, H319; 4.1/C2, H411 Specific Concentration Limits: C ≥ 5%: Skin Irrit. 2 H315 C ≥ 5%: Eye Irrit. 2 H319
≥25 - <50 %	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS:9003-36-5 EC:701-263-0	3.2/2, H315; 3.4.2/1, H317; 4.1/C2, H411
≥25 - <50 %	1,6-Hexanediol Diglycidyl Ether	CAS:933999-84-9, 16096-31-4 EC:618-939-5	3.2/2, H315; 3.3/2, H319; 3.4.2/1, H317; 4.1/C3, H412; 3.7/1, H360FD
≥5 - <10 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS:68609-97-2 EC:271-846-8 Index:603-103-00-4	3.2/2, H315; 3.4.2/1B, H317; 3.7/1, H360F

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: ==

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.

Exercise the greatest care when handling or opening the container.

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

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
CAS: 9003-36-5

Exposure Route: Fresh Water; PNEC Limit: 0.003 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.294 mg/kg

Exposure Route: Marine water; PNEC Limit: 0.0003 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 0.0294 mg/kg

Exposure Route: Soil; PNEC Limit: 0.237 mg/kg

1,6-Hexanediol Diglycidyl Ether
CAS: 933999-84-9,
16096-31-4

Exposure Route: Fresh Water; PNEC Limit: 0.0115 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.283 mg/kg

Exposure Route: Marine water; PNEC Limit: 0.00115 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 0.0283 mg/kg

Exposure Route: Soil; PNEC Limit: 0.223 mg/kg

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
CAS: 68609-97-2

Exposure Route: Marine water; PNEC Limit: 0.00072 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.0072 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 66.77 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 6.677 mg/kg

Exposure Route: Soil; PNEC Limit: 80.12 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Derived No Effect Level (DNEL) values

1,6-Hexanediol Diglycidyl Ether
CAS: 933999-84-9,
16096-31-4

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 2.8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 4.9 mg/m3

Engineering Controls

N.A.

Personal Protective Equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

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 Yellow

Odour: Characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 100 °C (212 °F)

Flammability (Solid, Gas): ==

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

Vapour pressure: N.A.

Vapour density: N.A.
Relative density: 1,12 g/cm³
Solubility in water: Insoluble
Solubility in oil: soluble
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: 200,00 cPs
Kinematic viscosity: N.A.
Particle characteristics:

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

None.

Section 11: Toxicological information

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not Classified. Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not Classified. Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not Classified. Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not Classified. Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not Classified. Based on available data, the classification criteria are not met
f) carcinogenicity	Not Classified. Based on available data, the classification criteria are not met
g) reproductive toxicity	Not Classified. Based on available data, the classification criteria are not met
h) STOT-single exposure	Not Classified. Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not Classified. Based on available data, the classification criteria are not met
j) aspiration hazard	Not Classified. Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

bis-[4-(2,3-epoxipropoxy)phenyl]
propane

a) acute toxicity LD50 Skin Rabbit = 20 mg/kg

LD50 Oral Rat = 11300 µL/kg

Formaldehyde, oligomeric
reaction products with 1-
chloro-2,3-epoxypropane

a) acute toxicity LD50 Oral Rat > 5000 mg/kg

and phenol

	LD50 Skin Rat > 2000 mg/kg
i) STOT-repeated exposure	NOAEL Oral = 250 mg/kg

1,6-Hexanediol Diglycidyl Ether	a) acute toxicity	LD50 Oral Rat = 2190 mg/kg
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	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 = 4000 mg/kg

Section 12: Ecological information

Ecotoxicity

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

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

The product is classified: 4.1/C2(H411)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS: 1675-54-3, 25085-99-8 - EINECS: 216-823-5 - INDEX: 603-073-00-2	a) Aquatic acute toxicity : LC50 Fish = 2 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia = 1.8 mg/L 48h
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS: 9003-36-5 - EINECS: 701-263-0	a) Aquatic acute toxicity : LC50 Fish = 5.7 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia = 2.55 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae = 1.8 mg/L 72h
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 48h
		a) Aquatic acute toxicity : LC50 Fish = 30 mg/L 96h
		a) Aquatic acute toxicity : EC50 Algae = 23.1 mg/L 48h
		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 > 100 mg/L 96h
		a) Aquatic acute toxicity : EL50 Daphnia = 7.2 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae = 843 mg/L 72h
		b) Aquatic chronic toxicity : NOEC Algae = 500 mg/L 72h

Persistence and degradability

Component	Persistence/Degradability:
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Readily biodegradable

Bioaccumulative potential

Component

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

Bioaccumulation

Not bioaccumulative

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

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)

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

Packing group, if applicable

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Yes

Special precautions for user

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 (-)

ADR-Limited Quantity threshold: 5 L

Air (IATA):

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subrisk: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A197 A215

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subrisk: -

IMDG-Special Provisions: 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 2020

New Zealand Inventory of Chemicals (NZIoC)

All components are listed on the NZIoC Inventory.

Health and Safety at Work Act

Certified Handler

No data available

Regulatory references

Hazardous Substances (Safety Data Sheets) Notice 2017.

Hazardous Substances (Labelling) Notice 2017.

Hazardous Substances (Classification) Notice 2020.

Section 16: Other information

Safety Data Sheet dated: 4/28/2025 - version 3

*** Sheet model entirely changed in compliance to regulatory update.**

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H360FD	May damage fertility. May damage the unborn child.
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
3.2/2	Skin irritation, Category 2
3.3/2	Eye irritation, Category 2
3.4.2/1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sensitisation, Category 1B
3.7/1	Reproductive toxicity, Category 1
4.1/C2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Chronic (long term) aquatic hazard, category 3

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.

Section 1: Identification of the substance and supplier

Product identifier

Mixture identification:

Trade name: EPOJET LV /B

Trade code: 901577

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

Uses advised against: Data not available.

Supplier's details

Company: MBP (NZ) Ltd. - 88 Carbine Road - Mount Wellington - 1060 - Auckland - New Zealand

Phone: +64 9 921 1994 (Mon-Fri 9am-5pm) - Fax: +64 9 921 1993

Responsible: enquiries@MBPLtd.co.nz - www.MBPLtd.co.nz

Emergency phone number

New Zealand National Poisons Centre: Phone 0800 764 766 (for acute poisoning situations)

Chemcall: Phone 0800 243 622 (for chemical based incidents-emergencies)

Section 2: Hazards identification

HSNO 2020 (7th GHS UN rev.) hazard classification

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020

Hazard classification

Acute toxicity (oral), Category 4

H302 - Harmful if swallowed.

Acute toxicity (inhalation), Category 4

H332 - Harmful if inhaled.

Skin corrosion, Category 1A

H314 - Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318 - Causes serious eye damage.

Skin Sensitisation, Category 1

H317 - May cause an allergic skin reaction.

Chronic (long term) aquatic hazard, category 2

H411 - Toxic to aquatic life with long lasting effects.

Hazard information

Hazard pictograms and Signal Word



Danger

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P310	Immediately call a POISON CENTER.
P321	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

Contains

m-xylylenediamine

triethylenetetramine

trimethylhexamethylenediamine

Fatty acids, C18-unsatd., dimers,
oligomeric reaction products with tall-oil
fatty acids and tetraethylenepentamine

fatty acids, C18 unsatd., dimers,oligomeric
reaction products with teta

reaction mass of (1-phenylethyl)phenols
and bis-(1-phenylethyl)phenols

Other hazards which do not result in a classification

No other hazards

Section 3: Composition/information on ingredients

Substances

N.A.

Mixtures

Mixture identification: EPOJET LV /B

Hazardous components within the meaning of HSNO Act and related classification

Qty	Name	Ident. Numb.	Classification
≥25 - <50 %	m-xylylenediamine	CAS:1477-55-0 EC:216-032-5	3.1/4/Inhal, H332; 3.1/4/Oral, H302; 3.2/1B, H314; 3.4.2/1, H317; 4.1/C3, H412
≥25 - <50 %	triethylenetetramine	CAS:90640-67-8, 112- 24-3 EC:292-588-2	3.1/4/Dermal, H312; 3.1/4/Oral, H302; 3.2/1B, H314; 3.4.2/1, H317; 4.1/C3, H412
≥10 - <20 %	trimethylhexamethylenediamine	CAS:25513-64-8 EC:247-063-2	3.1/4/Oral, H302; 3.2/1A, H314; 3.4.2/1, H317
≥10 - <20 %	bis(isopropyl)naphthalene	CAS:38640-62-9 EC:254-052-6	3.10/1, H304; 4.1/C1, H410
≥5 - <10 %	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tetraethylenepentamine	CAS:103758-98-1 EC:701-046-0	3.2/2, H315; 3.3/1, H318; 3.4.2/1, H317; 4.1/C2, H411
≥5 - <10 %	fatty acids, C18 unsatd., dimers,oligomeric reaction products with teta	CAS:68082-29-1 EC:500-191-5	3.2/2, H315; 3.3/1, H318; 4.1/C2, H411; 3.4.2/1, H317
≥5 - <10 %	reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	EC:701-443-9	3.2/2, H315; 3.4.2/1, H317; 4.1/C2, H411

Section 4: First aid measures

Description of necessary first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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:

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

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

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
m-xylylenediamine CAS: 1477-55-0	NZL	NEW ZEALAND	Short Term: Ceiling - 0.1 mg/m3

Predicted No Effect Concentration (PNEC) values

m-xylylenediamine CAS: 1477-55-0	Exposure Route: Fresh Water; PNEC Limit: 0.094 mg/kg
	Exposure Route: Marine water; PNEC Limit: 0.0094 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 0.43 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 0.043 mg/kg
	Exposure Route: Intermittent release; PNEC Limit: 0.152 mg/l
	Exposure Route: Soil; PNEC Limit: 0.045 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l
triethylenetetramine CAS: 90640-67-8, 112-24-3	Exposure Route: Marine water sediments; PNEC Limit: 0.123 mg/kg
	Exposure Route: Freshwater sediments; PNEC Limit: 2.08 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 8 mg/l
trimethylhexamethylenedi amine CAS: 25513-64-8	Exposure Route: Fresh Water; PNEC Limit: 0.102 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 0.622 mg/kg
	Exposure Route: Marine water; PNEC Limit: 0.01 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 0.062 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 72 mg/l
	Exposure Route: Soil; PNEC Limit: 10 mg/kg
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tetraethylenepentamine CAS: 103758-98-1	Exposure Route: Fresh Water; PNEC Limit: 0.00263 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.000263 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 236.01 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 26.301 mg/kg
fatty acids, C18 unsatd., dimers,oligomeric reaction products with teta CAS: 68082-29-1	Exposure Route: Fresh Water; PNEC Limit: 0.00434 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.000434 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 434.02 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 43.4 mg/kg
	Exposure Route: Soil; PNEC Limit: 86.78 mg/kg

Derived No Effect Level (DNEL) values

m-xylylenediamine CAS: 1477-55-0	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 0.33 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 1.2 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 0.2 mg/m3

triethylenetetramine
CAS: 90640-67-8, 112-24-3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 5.38 mg/l

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 0.57 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 20 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Consumer: 1.6 mg/l

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tetraethylenepentamine
CAS: 103758-98-1

Exposure Route: Human Dermal; Exposure Frequency: Long Term (repeated)
Worker Industry: 1.1 mg/kg; Consumer: 0.56 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term (repeated)
Consumer: 0.56 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term (repeated)
Worker Industry: 3.9 mg/m3; Consumer: 0.97 mg/m3

fatty acids, C18 unsatd., dimers, oligomeric reaction products with tetra
CAS: 68082-29-1

Exposure Route: Human Inhalation; Exposure Frequency: Long Term (repeated)
Worker Industry: 0.00039 mg/cm2; Worker Professional: 0.00039 mg/cm2; Consumer: 0.000097 mg/cm2

Exposure Route: Human Dermal; Exposure Frequency: Long Term (repeated)
Worker Industry: 1.1 mg/kg; Worker Professional: 0.00011 mg/cm2; Consumer: 0.56 mg/kg

Engineering Controls

N.A.

Personal Protective Equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

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.

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Section 9: Physical and chemical properties

Physical state Liquid

Appearance and colour: liquid transparent

Odour: ammonia

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: 100 °C (212 °F)
Flammability (Solid, Gas): N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour pressure: 0,01
Vapour density: N.A.
Relative density: 1,12 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:

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

None.

Section 11: Toxicological information

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not Classified. Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not Classified. Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not Classified. Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not Classified. Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not Classified. Based on available data, the classification criteria are not met
f) carcinogenicity	Not Classified. Based on available data, the classification criteria are not met
g) reproductive toxicity	Not Classified. Based on available data, the classification criteria are not met
h) STOT-single exposure	Not Classified. Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not Classified. Based on available data, the classification criteria are not met
j) aspiration hazard	Not Classified. Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

m-xylylenediamine	a) acute toxicity	LD50 Oral Mouse = 930 mg/kg LD50 Skin Rabbit = 2000 mg/kg LC50 Inhalation Mist Rat = 1.34 mg/l 4h LC50 Inhalation Rat = 700 ppm 1h
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triethylenetetramine	a) acute toxicity	LD50 Skin Rabbit = 1465 mg/kg LD50 Oral Rat = 1716 mg/kg
trimethylhexamethylenediamine	a) acute toxicity	LD50 Oral Rat = 910 mg/kg
bis(isopropyl)naphthalene	a) acute toxicity	LD50 Oral Rat > 4000 mg/kg LD50 Skin Rat > 4000 mg/kg LC50 Inhalation Rat > 5.6 mg/l 4h LD50 Skin Rat > 4500 mg/kg LC50 Inhalation Rat > 5.64 mg/l 4h LD50 Oral Rat = 3900 mg/kg
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tetraethylenepentamine	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LD50 Skin Rat > 2000 mg/kg
fatty acids, C18 unsatd., dimers, oligomeric reaction products with teta	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LD50 Skin Rat > 2000 mg/kg

Section 12: Ecological information

Ecotoxicity

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

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

The product is classified: 4.1/C2(H411)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
m-xylylenediamine	CAS: 1477-55-0 - EINECS: 216-032-5	a) Aquatic acute toxicity : EC50 Algae = 20 mg/L 72h a) Aquatic acute toxicity : EC50 Daphnia = 15.2 mg/L 48h a) Aquatic acute toxicity : LC50 Fish Oryzias latipes = 87.6 mg/L 96h ECHA
triethylenetetramine	CAS: 90640-67-8, 112-24-3 - EINECS: 292-588-2	a) Aquatic acute toxicity : EC50 Daphnia = 31.1 mg/L 48h
trimethylhexamethylenediamine	CAS: 25513-64-8 - EINECS: 247-063-2	a) Aquatic acute toxicity : LC50 Fish = 174 mg/L 48 a) Aquatic acute toxicity : EC50 Daphnia = 31.5 mg/L 24 a) Aquatic acute toxicity : EC50 Algae = 43.5 mg/L 72 a) Aquatic acute toxicity : NOEC Algae = 16 mg/L 72 c) Bacteria toxicity : EC50 Bacteria = 89 mg/L 17 b) Aquatic chronic toxicity : NOEC Fish = 10.9 mg/L - 34 d b) Aquatic chronic toxicity : NOEC Daphnia = 1.02 mg/L - 21 d d) Terrestrial toxicity : NOEC = 1000 mg/kg - 28 d
bis(isopropyl)naphthalene	CAS: 38640-62-9 - EINECS:	b) Aquatic chronic toxicity : NOEC Daphnia = 0.0118 mg/L - 21 d

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tetraethylenepentamine	CAS: 103758-98-1 - EINECS: 701-046-0	a) Aquatic acute toxicity : LL50 Daphnia = 1.7 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 1000 mg/L 96h
fatty acids, C18 unsatd., dimers, oligomeric reaction products with teta	CAS: 68082-29-1 - EINECS: 500-191-5	a) Aquatic acute toxicity : LC50 Fish Oryzias latipes > 1000 mg/L 96h
		a) Aquatic acute toxicity : LC50 Fish = 7.07 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 5.18 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae = 2.63 mg/L 72
		c) Bacteria toxicity : NOEC Bacteria = 1.41 mg/L
		a) Aquatic acute toxicity : LC50 Fish = 7.07 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia = 7.07 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae > 4.34 mg/L 72h

Persistence and degradability**Component**

fatty acids, C18 unsatd., dimers, oligomeric reaction products with teta

Persitence/Degradability:

Non-readily biodegradable

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**

2735

UN proper shipping name

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine - aromatic hydrocarbons)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine - aromatic hydrocarbons)

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine - aromatic hydrocarbons)

Transport hazard class(es)

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

Packing group, if applicable

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Yes

Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

ADR-Limited Quantity threshold: 1 L

Air (IATA):

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subrisk: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: SG35

IMDG-Subrisk: -

IMDG-Special Provisions: 274

IMDG-EMS: F-A, S-B

Section 15: Regulatory information

HSNO Approval

HSNO approval number and group standard title:

HSR002658 - Surface Coatings and Colourants (Corrosive) Group Standard 2020

New Zealand Inventory of Chemicals (NZIoC)

All components are listed on the NZIoC Inventory.

Health and Safety at Work Act

Certified Handler

No data available

Regulatory references

Hazardous Substances (Safety Data Sheets) Notice 2017.

Hazardous Substances (Labelling) Notice 2017.

Hazardous Substances (Classification) Notice 2020.

Section 16: Other information

Safety Data Sheet dated: 4/28/2025 - version 3

*** Sheet model entirely changed in compliance to regulatory update.**

Code	Description
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

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
3.1/4/Dermal	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute toxicity (oral), Category 4
3.10/1	Aspiration hazard, Category 1
3.2/1A	Skin corrosion, Category 1A
3.2/1B	Skin corrosion, Category 1B
3.2/2	Skin irritation, Category 2
3.3/1	Serious eye damage, Category 1
3.4.2/1	Skin Sensitisation, Category 1
4.1/C1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Chronic (long term) aquatic hazard, category 3

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.