

Safety Data Sheet

EPORIP comp.B

Safety Data Sheet dated: 24/4/2019 - version 2

Date of first edition: 7/6/2018



1. Identification

GHS Product identifier

Mixture identification:

Trade name: EPORIP comp.B

Trade code: 901531

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: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 4.30pm)

F. +61 7 32765076

Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

2. Hazard identification



Classification of the Hazardous chemical

- | | |
|-------------------|---|
| Skin Corr. 1B | Causes severe skin burns and eye damage. |
| Eye Dam. 1 | Causes serious eye damage. |
| Skin Sens. 1A | May cause an allergic skin reaction. |
| Aquatic Acute 1 | Very toxic to aquatic life. |
| Aquatic Chronic 1 | Very toxic to aquatic life with long lasting effects. |

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Danger

Hazard statements:

- | | |
|------|---|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statements:

- | | |
|----------------|--|
| P260 | Do not breathe dust/fume/gas/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. |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | IF INHALED: Remove victim 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.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see supplementary instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

Other hazards which do not result in a classification

Other Hazards: No other hazards

3. Composition/information on ingredients

Substances

no data available

Mixtures

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥75 - <100 %	Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylenepolyamines	CAS:68410-23-1	Eye Dam. 1, H318; Aquatic Chronic 1, H410; Skin Corr. 1C, H314; Skin Sens. 1A, H317; Aquatic Acute 1, H400	
≥5 - <10 %	Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	CAS:112-24-3	Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412	01-2119487919-13-XXXX
≥2.5 - <5 %	2,4,6-tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9	Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1B, H317	01-2119560597-27-XXXX
≥2.5 - <5 %	3-Aminopropyldimethylamine	CAS:109-55-7 EC:203-680-9 Index:612-061-00-6	Flam. Liq. 3, H226; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Eye Dam. 1, H318	01-2119486842-27-xxxx
≥0.25 - <0.49 %	bis[(dimethylamino)methyl]phenol	CAS:71074-89-0 EC:275-162-0	Skin Corr. 1C, H314; Skin Sens. 1B, H317	

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:

- 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.

Symptoms caused by exposure

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

Medical attention and special treatment

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

5. Fire-fighting measures

Suitable extinguishing media

None in particular.

Water.

Carbon dioxide (CO₂).

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: ==

Oxidizing properties: no data available

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Environmental precautions

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

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Methods and material for containment and cleaning up

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

Wash with plenty of water.

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	112-24-3	0,19	Fresh Water		
		0,038	Marine water		
		95,5	Freshwater sediments		
		19,2	Marine water sediments		

		19,1 mg/kg	Soil
2,4,6- tris (dimethylaminomethyl) phenol	90-72-2	0,084 mg/l	Fresh Water
		0,0084 mg/l	Marine water
		0,2 mg/l	Microorganisms in sewage treatments
3- Aminopropyldimethylamin e	109-55-7	0,0535 mg/l	Fresh Water
		0,00535 mg/l	Marine water

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	112-24-3	0,57 mg/kg	0,25 mg/kg		Human Dermal		Long Term, systemic effects
		0,001 mg/l		0,00029 mg/l	Human Inhalation		Long Term, systemic effects
			8 mg/kg		Human Dermal		Short Term, systemic effects
			0,41 mg/kg		Human Oral		Long Term, systemic effects
		0, 028000		0, 430000 mg/cm2	Human Dermal		Short Term, local effects
2,4,6- tris (dimethylaminometh yl)phenol	90-72-2	4,9 mg/m3			Human Inhalation		Long Term, local effects
		0,31 mg/m3			Human Inhalation		Long Term, systemic effects
3- Aminopropyldimethylamin e	109-55-7	9,8 mg/m3			Human Inhalation		

Appropriate engineering controls

no data available

Individual protection measures, such as 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:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

9. Physical and chemical properties

Color: white

Appearance: liquid

Odour: ammonia

Odour threshold: no data available

pH: 10.00
Melting point / freezing point: no data available
Initial boiling point and boiling range: no data available
Flash point: 100 °C (212 °F)
Evaporation rate: no data available
Flammability (Solid, Gas): no data available
Upper/lower flammability or explosive limits: no data available
Vapour pressure: 0.01
Vapour density: no data available
Relative density: 1.02 g/cm³
Solubility in water: partly soluble
Solubility in oil: Soluble
Partition coefficient (n-octanol/water): no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
Viscosity: 1,500.00 cPs
Specific heat value: no data available
Saturated vapour concentration: no data available
Release of invisible flammable vapours and gases: no data available
Particle size: no data available
Size distribution: no data available
Shape and aspect ratio: no data available
Crystallinity: no data available
Dustiness: no data available
Surface area: no data available
Degree of aggregation or agglomeration, and dispersibility: no data available
Biodurability or biopersistence: no data available
Surface coating or chemistry: no data available
VOC (Volatile Organic Compound) : 9,1 (A+B) (Rule 1168) g/l

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

no data 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:

Amines,
polyethylenepoly-,
triethylenetetramine
fraction (TETA)

a) acute toxicity LD50 Oral Rat = 1760 mg/kg

LD50 Skin Rabbit = 1465 mg/kg

b) skin corrosion/irritation Skin Irritant Positive

2,4,6-
tris
(dimethylaminomethyl)
phenol

a) acute toxicity LD50 Oral Rat = 2169 mg/kg

3- a) acute toxicity LD50 Oral Rat = 410 mg/kg
Aminopropyldimethylamin
e

LD50 Skin Rat = 1200 mg/kg

LD50 Skin Rat = 2139 mg/kg

LC50 Inhalation Rat = 24,8 mg/l 4h

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
- i) STOT-repeated exposure
- j) aspiration hazard

12. Ecological information

Ecotoxicity

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

Eco-Toxicological Information:

Very toxic to aquatic organisms.

Very toxic to aquatic life with long lasting effects.

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
>=5 - <10 %	Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	CAS: 112-24-3	a) Aquatic acute toxicity : LC50 Fish = 330 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 31,1 mg/L 48 a) Aquatic acute toxicity : EC50 Algae = 20 mg/L 72
>=2.5 - <5 %	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202-013-9	a) Aquatic acute toxicity : LC50 Fish = 222 mg/L 24 a) Aquatic acute toxicity : LC50 Fish = 249 mg/L 24 a) Aquatic acute toxicity : LC50 Fish = 175 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 718 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 84 mg/L 72 b) Aquatic chronic toxicity : NOEC Algae = 6,25 mg/L
>=2.5 - <5 %	3-Aminopropyldimethylamine	CAS: 109-55-7 - EINECS: 203-680-9 - INDEX: 612-061-00-6	a) Aquatic acute toxicity : LC50 Algae = 53,5 mg/L 72 a) Aquatic acute toxicity : EC50 Bacteria > 1000 mg/L 0.5 a) Aquatic acute toxicity : EC50 Bacteria = 95 mg/L 17 a) Aquatic acute toxicity : EC50 Daphnia = 59,5 mg/L 48 a) Aquatic acute toxicity : LC50 Fish = 122 mg/L 96

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

13. Disposal considerations

Disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. Transport information

UN number

2735

UN proper shipping name

ADG-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ADDUCTED POLYAMIDE)

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ADDUCTED POLYAMIDE)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ADDUCTED POLYAMIDE)

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ADDUCTED POLYAMIDE)

Transport hazard class(es)

ADG-Class: 8

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

Packing group, if applicable

ADG-Packing Group: II

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

Environmental hazards

ADG-Environmental Pollutant: Yes

Marine pollutant: Yes

no data available

Special precautions for user

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

no data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICS: all components are listed

16. Other information

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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:

ACGIH: American Conference of Governmental Industrial Hygienists

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

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

VOC: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

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

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

LDLo: Leathal Dose Low

N.A.: Not Applicable

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

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

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

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

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification