

Safety Data Sheet

EPOJET / B

Safety Data Sheet dated: 01/22/2025 - version 6

Date of first edition: 03/14/2017



1: Identification

Product identifier

Mixture identification:

Trade name: EPOJET / B

Trade code: 9015612

Recommended use and restrictions on use

Recommended use: Hardener for epoxy products

Restrictions on use: Not available

Supplier's details

Company: MAPEI INC. (Canada)

2900 Francis-Hughes Avenue

H7L 3J5 - Laval - QC - CAN

Phone: 1-450-662-1212

Responsible: RDProductSafety@mapei.com

Emergency phone number

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. Hazard identification



Classification of the product

Acute toxicity (oral), Category 4

Serious eye damage, Category 1

Skin Sensitization, Category 1

Reproductive toxicity, Category 2

Specific target organ toxicity following repeated exposure, Category 1

Chronic (long-term) aquatic hazard - Category 3

Skin corrosion, Category 1C

Harmful if swallowed.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility. Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Harmful to aquatic life with long lasting effects.

Causes severe skin burns and eye damage.

Label elements

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.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

H412 Harmful 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.

P260 Do not breathe mist/vapours/spray.

P264 Wash skin thoroughly after handling.

- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/clothing and eye/face protection.
- P301+P312 IF SWALLOWED: Call a doctor 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/ 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P310 Immediately call a doctor.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container in accordance with applicable regulations.

Other hazards

None

Ingredient(s) with unknown acute toxicity

None

3. Composition/information on ingredients

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification
50-75 %	polyamido amine; Fatty acids, tall-oil, reaction products with tetraethylenepentamine	CAS:68953-36-6 EC:273-201-6	Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1, H317
10-20 %	triethylenetetramine	CAS:112-24-3 EC:203-950-6 Index:612-059-00-5	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412; Acute Tox. 4, H312
10-20 %	benzyl alcohol; benzenemethanol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H302; Eye Irrit. 2A, H319
10-20 %	aminoethylpiperazine; 2-piperazin-1-ylethylamine	CAS:140-31-8 EC:205-411-0 Index:612-105-00-4	Acute Tox. 3, H311; Repr. 2, H361; STOT RE 1, H372; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412
5-10 %	2,4,6-tri(dimethylaminomethyl)phenol; Mesitol, alpha2,alpha4,alpha6-tris(dimethylamino)-	CAS:90-72-2 EC:202-013-9 Index:603-069-00-0	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302
2.5-5 %	tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine	CAS:112-57-2 EC:203-986-2 Index:612-060-00-0	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312
1-2.5 %	bis[(dimethylamino)methyl]phenol;	CAS:71074-89-0 EC:275-162-0	Skin Corr. 1C, H314
0.1-0.25 %	diethylene triamine; 2,2'-iminodi(ethylamine)	CAS:111-40-0 EC:203-865-4 Index:612-058-00-X	Acute Tox. 2, H330; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Corr. 1B, H314; STOT SE 3, H335; Skin Sens. 1, H317

The actual concentration of the components listed above is withheld as a trade secret.

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.
- If skin irritation or rash occurs: Get medical advice/attention.

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.
- Remove contact lenses, if present and easy to do. Continue rinsing.

In case of Ingestion:

- Give nothing to eat or drink.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Most important symptoms/effects, acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

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)

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO₂).

Unsuitable extinguishing media:

- None in particular.

Specific hazards arising from the hazardous product

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: Not available
- Explosive properties: Not available
- Oxidizing properties: Not 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.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.
- Use appropriate respiratory protection.
- 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 material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Retain contaminated washing water and dispose it.

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.
- 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.
- Wash skin thoroughly after handling.
- 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.

Storage temperature: Not available

8. Exposure controls/personal protection

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
benzyl alcohol; benzenemethanol CAS: 100-51-6	MAK	GERMANY	Long Term: 22 mg/m ³ - 5 ppm
	MAK	SWITZERLAN D	Long Term: 22 mg/m ³ - 5 ppm
diethylene triamine; 2,2'- iminodi(ethylamine) CAS: 111-40-0	ACGIH		Long Term: 1 ppm Skin - URT and eye irr
	ACGIH		Long Term: 1 ppm Skin - potential significant contribution to overall exposure by the cutaneous route;eye and upper respiratory tract irritation
	MAK	AUSTRIA	Long Term: 4 mg/m ³ - 1 ppm
	MAK	SWITZERLAN D	Long Term: 4 mg/m ³ - 1 ppm

Predicted No Effect Concentration (PNEC) values

aminoethylpiperazine; 2-
piperazin-1-ylethylamine
CAS: 140-31-8

Exposure Route: Fresh Water; PNEC Limit: 0.058 mg/l

Exposure Route: Marine water; PNEC Limit: 0.0058 mg/l

Exposure Route: Intermittent release; PNEC Limit: 0.58 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 215 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 21.5 mg/kg

Exposure Route: Soil; PNEC Limit: 42.9 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 250 mg/l

tetraethylenepentamine; 2,2',3,3',4,4'-
hexaethylenetriamine
CAS: 112-57-2

Exposure Route: Fresh Water; PNEC Limit: 0.00068 mg/l

Exposure Route: Marine water; PNEC Limit: 0.00068 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 3.34 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.343 mg/kg

Exposure Route: Soil; PNEC Limit: 0.683 mg/kg

diethylene triamine; 2,2'-
iminodi(ethylamine)
CAS: 111-40-0

Exposure Route: Fresh Water; PNEC Limit: 0.56 mg/l

Exposure Route: Marine water; PNEC Limit: 0.056 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 1072 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 107.2 mg/kg
Exposure Route: Intermittent release; PNEC Limit: 0.32 mg/l
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6 mg/l
Exposure Route: Soil; PNEC Limit: 214 mg/kg

Derived No Effect Level (DNEL) values

triethylenetetramine
CAS: 112-24-3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 5380 mg/m³; Consumer: 1600 mg/m³

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

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 1 mg/m³; Consumer: 0.29 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects
Worker Industry: 0.028 mg/m³; Consumer: 0.43 mg/cm²

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

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

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects
Consumer: 1 mg/cm²

Exposure Route: Human Oral; Exposure Frequency: Long Term, local effects
Consumer: 0.43 mg/cm²

aminoethylpiperazine; 2-
piperazin-1-ylethylamine
CAS: 140-31-8 Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Industry: 20 mg/kg; Consumer: 10 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects
Worker Industry: 0.04 mg/cm²; Consumer: 0.02 mg/cm²

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 3.3 mg/kg; Consumer: 1.7 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 3.6 mg/m³; Consumer: 0.9 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects
Worker Industry: 0.006 mg/cm²; Consumer: 0.003 mg/cm²

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 21.4 mg/m³; Consumer: 5.3 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 1.5 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 0.3 mg/kg

2,4,6-
tri(dimethylaminomethyl)
phenol; Mesitol,
alpha2,alpha4,alpha6-
tris(dimethylamino)-
CAS: 90-72-2 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 0.31 mg/m³

tetraethylenepentamine;
3,6,9-
triazaundecamethylenedia
mine
CAS: 112-57-2 Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Consumer: 10 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 0.74 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 0.32 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 0.53 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 0.00129 mg/l

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 0.00038 mg/l

diethylene triamine; 2,2'-iminodi(ethylamine)
CAS: 111-40-0
Exposure Route: Human Oral; Exposure Frequency: Short Term, local effects
Consumer: 4.88 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 92.1 mg/m³; Consumer: 27.5 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 15.4 mg/m³; Consumer: 4.6 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 2.6 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 11.4 mg/kg; Consumer: 4.88 mg/kg

Appropriate engineering controls

Not 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:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

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

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

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

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

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

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: viscous liquid amber

Odour: No data available

Odour threshold: No data available

pH: No data available

Melting point / freezing point: No data available

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

Flash point: 100 °C (212 °F)

Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available

Vapour pressure: No data available

Relative density: 0.99 g/cm³

Solubility in water: No data available

Solubility in oil: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Solid/gas flammability: No data available

Other information

Substance Groups relevant properties No data available

Miscibility: No data available

Fat Solubility: No data available

Conductivity: No data available

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.

11. Toxicological information

Information on toxicological effects

Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

Toxicological Information of the Preparation

- | | |
|--------------------------------------|---|
| a) acute toxicity | The product is classified: Acute toxicity (oral), Category 4(H302)
ATEmix - Oral : 1966.1 mg/kg bw |
| b) skin corrosion/irritation | The product is classified: Skin corrosion, Category 1C(H314) |
| c) serious eye damage/irritation | The product is classified: Serious eye damage, Category 1(H318) |
| d) respiratory or skin sensitisation | The product is classified: Skin Sensitization, Category 1(H317) |
| 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 | The product is classified: Reproductive toxicity, Category 2(H361) |
| h) STOT-single exposure | Not classified
Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure | The product is classified: Specific target organ toxicity following repeated exposure, Category 1(H372) |
| j) aspiration hazard | Not classified
Based on available data, the classification criteria are not met |

Toxicological information on main components of the mixture:

triethylenetetramine	a) acute toxicity	LD50 Skin Rabbit 1465 mg/kg LD50 Oral Rat = 2500 mg/kg
benzyl alcohol; benzenemethanol	a) acute toxicity	LD50 Oral Rat = 1620 mg/kg
aminoethylpiperazine; 2- piperazin-1-ylethylamine	a) acute toxicity	LD50 Skin Rabbit = 866 mg/kg LD50 Oral Rabbit > 2097 mg/kg LD50 Skin Rabbit = 880 µL/kg LD50 Oral Rat = 2140 µL/kg
	e) germ cell mutagenicity	NOAEL Rat > 899 mg/kg
	g) reproductive toxicity	NOAEL Oral Rat = mg/kg

2,4,6-tri(dimethylaminomethyl)phenol; Mesitol, alpha2,alpha4,alpha6-tris(dimethylamino)- a) acute toxicity LD50 Oral Rat = 2169 mg/kg

LD50 Skin Rat > 1 ml/kg

diethylene triamine; 2,2'-iminodi(ethylamine) a) acute toxicity LD50 Skin Rabbit = 1045 mg/kg

LD50 Oral Rat = 1553 mg/kg

LC50 Inhalation Mist 0.07 mg/l

Substance(s) listed on the IARC Monographs:

None

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

None

12. Ecological information

Ecotoxicity

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

List of Eco-Toxicological properties of the product

The product is classified: Chronic (long-term) aquatic hazard - Category 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
triethylenetetramine	CAS: 112-24-3 - EINECS: 203- 950-6 - INDEX: 612-059-00-5	a) Aquatic acute toxicity : LC50 Fish <i>Poecilia reticulata</i> = 570 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish <i>Pimephales promelas</i> = 495 mg/L 96h IUCLID a) Aquatic acute toxicity : EC50 <i>Daphnia magna</i> = 31.1 mg/L 48h IUCLID a) Aquatic acute toxicity : EC50 Algae <i>Desmodesmus subspicatus</i> = 2.5 mg/L 72h IUCLID a) Aquatic acute toxicity : EC50 Algae <i>Pseudokirchneriella subcapitata</i> = 20 mg/L 72h IUCLID a) Aquatic acute toxicity : EC50 Algae <i>Pseudokirchneriella subcapitata</i> = 3.7 mg/L 96h EPA
benzyl alcohol; benzenemethanol	CAS: 100-51-6 - EINECS: 202- 859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity : LC50 Fish <i>Pimephales promelas</i> = 460 mg/L 96h EPA
aminoethylpiperazine; 2-piperazin-1-ylethylamine	CAS: 140-31-8 - EINECS: 205- 411-0 - INDEX: 612-105-00-4	a) Aquatic acute toxicity : LC50 Fish = 2190 mg/L 96 a) Aquatic acute toxicity : EC50 <i>Daphnia</i> = 58 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 72 a) Aquatic acute toxicity : LC50 Fish <i>Pimephales promelas</i> 1950 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish <i>Poecilia reticulata</i> > 1000 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss >= 100 mg/L 96h IUCLID

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 32 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 495 mg/L 72h IUCLID

2,4,6-tri(dimethylaminomethyl)phenol; Mesitol, alpha2,alpha4,alpha6-tris(dimethylamino)-
CAS: 90-72-2 -
EINECS: 202-013-9 - INDEX: 603-069-00-0

a) Aquatic acute toxicity : LC50 Fish = 175 mg/L 96h

a) Aquatic acute toxicity : EC50 Algae = 46.7 mg/L 72h

a) Aquatic acute toxicity : NOEC Algae = 25.1 mg/L 72h

tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine
CAS: 112-57-2 -
EINECS: 203-986-2 - INDEX: 612-060-00-0

a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata = 420 mg/L 96h IUCLID

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 24.1 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 2.1 mg/L 72h IUCLID

diethylene triamine; 2,2'-iminodi(ethylamine)
CAS: 111-40-0 -
EINECS: 203-865-4 - INDEX: 612-058-00-X

a) Aquatic acute toxicity : LC50 Fish = 430 mg/L 96

a) Aquatic acute toxicity : EC50 Daphnia = 32 mg/L 48

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. Disposal considerations

Safe handling and methods for disposal

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

Methods of disposal:

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.

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.

14. Transport information

UN number

TDG-UN number: UN1760

ADR-UN number: 1760

DOT-UN Number: UN1760

IATA-Un number: 1760

IMDG-Un number: 1760

UN proper shipping name

TDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (polyamides - triethylenetetramine)

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (polyamides - triethylenetetramine)

DOT-Proper Shipping Name: Corrosive liquids, n.o.s. (polyamides - triethylenetetramine)

IATA-Technical name: CORROSIVE LIQUID, N.O.S. (polyamides - triethylenetetramine)

IMDG-Technical name: CORROSIVE LIQUID, N.O.S. (polyamides - triethylenetetramine)

Transport hazard class(es)

TDG-Class: 8

ADR-Class: 8

DOT-Hazard Class: 8

IATA-Class: 8

IMDG-Class: 8

Packing group

TDG-Packing Group: III

ADR-Packing Group: III

DOT Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not Applicable

Special precautions in connection with transport or conveyance

TDG:

TDG Special provisions: 16

Department of Transportation (DOT):

DOT-Special Provision(s): IB3, T7, TP1, TP28

DOT-Label(s): 8

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

DOT-Limited Quantity threshold: 5 L

Road and Rail (ADR-RID) :

ADR exempt: No

ADR-Label: 8

ADR-Hazard identification number: 80

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

Air (IATA) :

IATA-Passenger Aircraft: 852

IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG) :

IMDG-Stowage Code: Category A SW2

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 223 274

IMDG-EMS: F-A, S-B

15. Regulatory information

Canada - Federal regulations

DSL - Domestic Substances List

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

polyamido amine; Fatty acids, tall- is listed in TSCA Section 8b
oil, reaction products with
tetraethylenepentamine

triethylenetetramine is listed in TSCA Section 8b

benzyl alcohol; benzenemethanol is listed in TSCA Section 8b

aminoethylpiperazine; 2-piperazin- is listed in TSCA Section 8b
1-ylethylamine

2,4,6- is listed in TSCA Section 8b

tri(dimethylaminomethyl)phenol;
Mesityl, alpha2,alpha4,alpha6-
tris(dimethylamino)-

tetraethylenepentamine; 3,6,9- is listed in TSCA Section 8b
trizaundecamethylenediamine

diethylene triamine; 2,2'- is listed in TSCA Section 8b
iminodi(ethylamine)

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

No substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

benzyl alcohol; benzenemethanol is listed in CAA Section 112(b) - HON

tetraethylenepentamine; 3,6,9- is listed in CAA Section 112(b) - HON
trizaundecamethylenediamine

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

triethylenetetramine

benzyl alcohol; benzenemethanol

aminoethylpiperazine; 2-piperazin-1-ylethylamine

tetraethylenepentamine; 3,6,9-trizaundecamethylenediamine

diethylene triamine; 2,2'-iminodi(ethylamine)

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

triethylenetetramine
benzyl alcohol; benzenemethanol
aminoethylpiperazine; 2-piperazin-1-ylethylamine
tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine
diethylene triamine; 2,2'-iminodi(ethylamine)

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

triethylenetetramine
aminoethylpiperazine; 2-piperazin-1-ylethylamine
tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine
diethylene triamine; 2,2'-iminodi(ethylamine)

16. Other information

Safety Data Sheet dated: 1/22/2025 - version 6

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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

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.

Code	Description
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2
A.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
A.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
A.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
A.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
A.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
A.3/1	Eye Dam. 1	Serious eye damage, Category 1
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.7/2	Repr. 2	Reproductive toxicity, Category 2
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
A.9/1	STOT RE 1	Specific target organ toxicity following repeated exposure, Category 1
CAN-HAE/C2	Aquatic Chronic 2	Chronic (long-term) aquatic hazard - Category 2
CAN-HAE/C3	Aquatic Chronic 3	Chronic (long-term) aquatic hazard - Category 3

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.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION