

Safety data sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name

EPOKOL 903ZMB

UFI:

T7EJ-VVN8-QK1S-Q0UY



<https://my.chemius.net/p/cW5Jeq/en/pd/en>

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses

Adhesive for wood flooring - component B

Uses advised against

No information.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier

MITOL, tovarna lepil, d.o.o., Sežana
Partizanska c. 78
6210 Sežana, Slovenia
+386 5 73 12 300 (8:00-16:00)
lilijana.kocjan@mitol.si

1.4 EMERGENCY TELEPHONE NUMBER

Emergency

112

Supplier

+386 5 73 12 300 (8:00-16:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Harmful if swallowed.
Acute Tox. 4; H312 Harmful in contact with skin.
Skin Corr. 1B; H314 Causes severe skin burns and eye damage.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Dam. 1; H318 Causes serious eye damage.
Acute Tox. 4; H332 Harmful if inhaled.
STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: DANGER

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.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
P102 Keep out of reach of children.
P260 Do not breathe mist/vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

Safety data sheet

benzyl alcohol
3-aminomethyl-3,5,5-trimethylcyclohexylamine
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
4,4'-methylenebis(cyclohexylamine)
methyleneoxide, polymer with benzenamine, hydrogenated
2,4,6-tris(dimethylaminomethyl)phenol
N,N'-Bis(3-aminopropyl)ethylenediamine
N-(2-aminoethyl)-1,3-propanediamine

2.3 OTHER HAZARDS

PBT/vPvB

No information.

Endocrine disrupting properties

No information.

Additional information

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

For mixtures see 3.2.

3.2 MIXTURES

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	25-<60	Acute Tox. 4; H302 Eye Irrit. 2; H319 Acute Tox. 4; H332	/	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	10-45	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Aquatic Chronic 3; H412	/	/
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	38294-64-3 500-101-4 - 01-2119965165-33	0-30	Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Chronic 3; H412	/	/

Safety data sheet

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
4,4'- methylenebis(cy clohexylamine)	1761-71-3 217-168-8 - 01-2119541673- 38	10-<30	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 STOT RE 2; H373	/	/
methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2 603-894-6 - 01-2119983522- 33	5-<15	Acute Tox. 4; H302 Skin Corr. 1C; H314 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 3; H412	/	/
2,4,6- tris(dimethylami nomethyl)phenol	90-72-2 202-013-9 603-069-00-0 01-2119560597- 27	5-<15	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318	/	/
bis(isopropyl)na phthalene	38640-62-9 254-052-6 - 01-2119565150- 48	5-<10	Asp. Tox. 1; H304 Aquatic Chronic 1; H410; M = 1	/	/
N,N'-Bis(3- aminopropyl)eth ylenediamine	10563-26-5 234-147-9 - 01-2119976331- 37	1-<5	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318	/	/
N-(2- aminoethyl)-1,3- propanediamine	13531-52-7 236-882-0 - 01-2120097861- 45	0,01-<1	Acute Tox. 4; H302 Acute Tox. 2; H310 Skin Corr. 1A; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Aquatic Chronic 3; H412	/	/

Safety data sheet

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If victim is not breathing give artificial respiration. Seek medical help immediately.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth with water and drink a glass of water by sips! Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Following inhalation

Corrosive. Harmful. Negative effects can affect liver, kidney, and central nervous system. Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

Redness, ulcers, pain. May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

Following eye contact

Contact with eyes can cause severe injuries. Discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.

Following ingestion

Harmful to health. May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Causes corrosions in mouth, throat, digestive tract.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products

In case of heating harmful vapours/gases can be generated. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂). In the event of fire the following is released: nitrogen oxides (NO_x).

5.3 ADVICE FOR FIREFIGHTERS

Protective actions

In case of fire do not breathe fumes/gases. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system. Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Safety data sheet

Ensure adequate ventilation.

Emergency procedures

Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Do not use open fire and keep away all sources of ignition. No action shall be taken involving any personal risk or without suitable training. Do not breathe vapour or mist. Avoid contact with skin and eyes. Avoid contact with spilled product or contaminated surfaces.

For emergency responders

Use personal protective equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13).

OTHER INFORMATION

No information.

6.4 REFERENCE TO OTHER SECTIONS

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

No information.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/mist. Remove contaminated clothes and wash them before reuse. Refer to instructions on label and regulations for safety and health at work. Consider measures required in Section 8 of this safety data sheet.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Keep away from oxidizers, strong alkalies and acids. Storage temperature +5°C to 35°C.

Packaging materials

No information.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking.

Storage class

No information.

Further information on storage conditions

No information.

7.3 SPECIFIC END USE(S)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Safety data sheet

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	value
benzyl alcohol	Worker	inhalation	long term systemic effects	/	22 mg/m ³
benzyl alcohol	Worker	dermal	long term systemic effects	/	8 mg/kg bw/day
benzyl alcohol	Worker	inhalation	short term systemic effects	/	110 mg/m ³
benzyl alcohol	Consumer	inhalation	long term systemic effects	/	5.4 mg/m ³
benzyl alcohol	Consumer	inhalation	short term systemic effects	/	27 mg/m ³
benzyl alcohol	Consumer	dermal	long term systemic effects	/	4 mg/kg bw/day
benzyl alcohol	Consumer	dermal	short term systemic effects	/	20 mg/kg bw/day
benzyl alcohol	Worker	dermal	short term systemic effects	/	40 mg/kg bw/day
benzyl alcohol	Consumer	oral	long term systemic effects	/	4 mg/kg bw/day
benzyl alcohol	Consumer	oral	short term systemic effects	/	20 mg/kg bw/day
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Worker	inhalation	long term local effects	/	0.073 mg/m ³
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Worker	inhalation	short term local effects	/	0.073 mg/m ³
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Consumer	oral	long term systemic effects	/	0.526 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
benzyl alcohol	fresh water	/	1 mg/L
benzyl alcohol	water, intermittent release	/	2.3 mg/L
benzyl alcohol	marine water	/	0.1 mg/L

Safety data sheet

Name	Exposure route	Remark	value
benzyl alcohol	water treatment plant	/	39 mg/L
benzyl alcohol	fresh water sediment	dry weight	5.27 mg/kg
benzyl alcohol	marine water sediment	dry weight	0.527 mg/kg
benzyl alcohol	soil	dry weight	0.456 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine	fresh water	/	0.06 mg/L
3-aminomethyl-3,5,5-trimethylcyclohexylamine	marine water	/	0.006 mg/L
3-aminomethyl-3,5,5-trimethylcyclohexylamine	water, intermittent release	/	0.23 mg/L
3-aminomethyl-3,5,5-trimethylcyclohexylamine	water treatment plant	/	3.18 mg/L
3-aminomethyl-3,5,5-trimethylcyclohexylamine	fresh water sediment	dry weight	5.784 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine	marine water sediment	dry weight	0.578 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine	soil	dry weight	1.121 mg/kg
2,4,6-tris(dimethylaminomethyl) phenol	fresh water	/	0.084 mg/L
2,4,6-tris(dimethylaminomethyl) phenol	water, intermittent release	fresh water	0.84 mg/L
2,4,6-tris(dimethylaminomethyl) phenol	marine water	/	0.008 mg/L
2,4,6-tris(dimethylaminomethyl) phenol	water treatment plant	/	0.2 mg/L

8.2 EXPOSURE CONTROLS

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Do not eat, drink or smoke while working.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

Safety data sheet

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state

liquid

Colour

yellow

Odour

amine like

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	substance/mixture is non-soluble (in water)
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	No information.
Relative vapour density	No information.
Particle characteristics	No information.

9.2 OTHER INFORMATION

Explosive properties	No information.
-----------------------------	-----------------

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No information.

10.2 CHEMICAL STABILITY

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No information.

10.4 CONDITIONS TO AVOID

No special precautions required. Consider the directions for use and storage. Does not decompose if used and stored as instructed. Avoid heating.

10.5 INCOMPATIBLE MATERIALS

Safety data sheet

Strong oxidising agents.
Strong acids.
Strong bases.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide.
Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
benzyl alcohol	oral	LD ₅₀	rat (male)	/	1620 mg/kg	/	ECHA
benzyl alcohol	inhalation (aerosol)	LC ₅₀	rat	4 h	> 4178 mg/m ³	OECD 403	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	oral	LD ₅₀	rat	/	1030 mg/kg	OECD 401 OECD 401	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	dermal	LD ₅₀	rat	/	> 2000 mg/kg	OECD 402	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	inhalation	LC ₅₀	rat	4 h	> 5.01 mg/l	OECD 403	/
4,4'-methylenedibis(cyclohexylamine)	oral	LD ₅₀	rat	/	625 mg/kg	/	/
4,4'-methylenedibis(cyclohexylamine)	dermal	LD ₅₀	rabbit	/	2110 mg/kg	/	/
methylenedioxybenzene, polymer with benzenamine, hydrogenated	oral	LD ₅₀	rat	/	367 mg/kg	/	/

Safety data sheet

Name	Exposure route	Type	Species	Time	value	Method	Remark
methylenedioxybenzene, polymer with benzenamine, hydrogenated	dermal	LD ₅₀	rabbit	/	> 2000 mg/kg	/	/
2,4,6-tris(dimethylaminomethyl)phenol	oral	LD ₅₀	rat	/	2169 mg/kg	/	/

Additional information

Harmful if swallowed. Harmful if inhaled.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
benzyl alcohol	rabbit	/	Irritating.	OECD 404	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	rabbit	/	Corrosive	OECD 404	/

Additional information

Corrosive.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
benzyl alcohol	/	rabbit	/	Mild irritating.	OECD 405	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	/	rabbit	/	Corrosive.	OECD 405	/

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
benzyl alcohol	dermal	guinea pig	/	Negative.	OECD 406	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	dermal	guinea pig	/	Sensitizing.	OECD 406	/

Additional information

May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

No information.

Safety data sheet

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

No information.

Additional information

May cause damage to organs through prolonged or repeated exposure.

(j) Aspiration hazard

No information.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties

No information.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
benzyl alcohol	LC ₅₀	460 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
benzyl alcohol	IC ₅₀	700 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201 OECD 201	/
benzyl alcohol	EC ₅₀	230 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
benzyl alcohol	EC ₅₀	390 mg/L	24 h	bacteria	/	/	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	EC ₁₀	1120 mg/L	18 h	bacteria	<i>Pseudomonas putida</i>	/	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	EC ₅₀	23 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/

Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
3-aminomethyl-3,5,5-trimethylcyclohexylamine	ErC ₅₀	> 50 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	LC ₅₀	110 mg/L	96 h	fish	<i>Leuciscus idus</i>	/	/
4,4'-methylenebis(cyclohexylamine)	LC ₅₀	> 100 mg/L	96 h	fish	<i>Leuciscus idus</i>	/	/
4,4'-methylenebis(cyclohexylamine)	LC ₀	46 mg/L	96 h	fish	<i>Leuciscus idus</i>	/	/
4,4'-methylenebis(cyclohexylamine)	EC ₅₀	6.84 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
4,4'-methylenebis(cyclohexylamine)	EC ₅₀	140 - 200 mg/L	72 h	algae	/	/	/
methylenedioxybenzene, polymer with benzenamine, hydrogenated	LC ₅₀	63 mg/L	96 h	fish	<i>Poecilia reticulata</i>	/	/
methylenedioxybenzene, polymer with benzenamine, hydrogenated	EC ₅₀	15.4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
methylenedioxybenzene, polymer with benzenamine, hydrogenated	ErC ₅₀	43.9 mg/L	72 h	algae	/	/	/

Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
methylenoxide, polymer with benzenamine, hydrogenated	EC ₅₀	187 mg/L	3 h	bacteria	Activated sludge	/	/
2,4,6-tris(dimethylaminomethyl)phenol	LC ₅₀	222 mg/L	24 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	LC ₁₀₀	240 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	LC ₀	180 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC ₅₀	718 mg/L	96 h	crustacea	<i>Palaemonetes</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC ₁₀₀	1000 mg/L	96 h	crustacea	Neopanope	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC ₀	750 mg/L	96 h	crustacea	Neopanope	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC ₅₀	84 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	NOEC	6.25 mg/L	/	algae	/	/	/

Chronic (long-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
benzyl alcohol	NOEC	51 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	NOEC	3 mg/l	21 days	crustaceans	<i>Daphnia magna</i>	/	/

Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
3-aminomethyl-3,5,5-trimethylcyclohexylamine	NOEC	1.5 mg/l	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
4,4'-methylenebis(cyclohexylamine)	NOEC	4 mg/l	504 h	<i>Daphnia</i>	/	/	/
2,4,6-tris(dimethylaminomethyl)phenol	NOEC	6.25 mg/l	/	fish	/	/	/

12.2 PERSISTENCE AND DEGRADABILITY

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
benzyl alcohol	biodegradability	95 %	/	/	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	/
benzyl alcohol	biodegradability	92 %	/	/	OECD 302 C	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	biodegradability	8 %	/	/	/	/

12.3 BIOACCUMULATIVE POTENTIAL

Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
benzyl alcohol	Octanol-water (log Pow)	1.05	/	/	/	/
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Octanol-water (log Pow)	0.99	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
benzyl alcohol	BCF	/	1.37	/	/	/	/

12.4 MOBILITY IN SOIL

Known or predicted distribution to environmental compartments

No information.

Safety data sheet

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

No evaluation.

12.6 ENDOCRINE DISRUPTING PROPERTIES

No information.

12.7 OTHER ADVERSE EFFECTS

No information.

12.8 ADDITIONAL INFORMATION

For product

Harmful to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Product / Packaging disposal

Waste chemical

Add appropriate amount B component to component A and mix well. The reaction is exothermic. Leave at least 1 day - mixture should become hard. Classification number of hardened waste is 08 04 99. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Dispose of in accordance with applicable waste disposal regulation.

Waste codes / waste designations according to LoW

No information.

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.









Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 2735	UN 2735	UN 2735	UN 2735
14.2 UN proper shipping name			
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (bis(isopropyl)naphthalene, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

Safety data sheet

ADR/RID	IMDG	IATA	ADN
14.3 Transport hazard class(es)			
8	8	8	8
 	 	 	 
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
YES	Marine pollutant	YES	YES
14.6 Special precautions for user			
Limited quantities 5 L Special provisions 274 Packing Instructions P001, IBC03, LP01, R001 Transport category 3 Tunnel restriction code (E)	Limited quantities 5 L EmS F-A, S-B	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y841 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 1 L Packing Instructions (Pkg Inst) 852 Maximum Net Quantity/Package (Max Net Qty/Pkg) 5 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 856 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg) 60 L Excepted quantities E1 ERG code 8L	Limited quantities 5 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Safety data sheet

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

No information.

15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

2.1 Classification of the substance or mixture 2.2 Label elements 3.2 Mixtures 8.1 Control parameters 9.1 Information on basic physical and chemical properties 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.1 Toxicity 12.2 Persistence and degradability 12.3 Bioaccumulative potential

Key literature references and sources for data

No information.

Abbreviations and acronyms

Safety data sheet

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWG - European Waste Catalogue (replaced by LoW – see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

Safety data sheet

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H310 Fatal in contact with skin.
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.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.