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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : EPROPOX FC 30 B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Epoxy Hardener

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company Trelleborg Pipe Seals Duisburg GmbH

Dr.-Alfred-Herrhausen-Allee 36

47228 Duisburg

Germany

Telephone +49 (0) 2065 999-0
Telefax +49 (0) 2065 999-111
To pail address 499 999-111

E-mail address technic.epros@trelleborg.com

1.4 Emergency telephone number +49 (0) 2065 999-150

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 4 H312: Harmful in contact with skin.

Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

Classification (67/548/EEC, 1999/45/EC)

Corrosive R34: Causes burns.

Harmful R21/22: Harmful in contact with skin and if swal-

lowed.

Sensitising R43: May cause sensitisation by skin contact.

Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic environ-

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ment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger

Hazard statements : H302 + H312 Harmful if swallowed or in contact with skin

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H412 Hamful to aquatic life with long lasting ef-

fects.

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ va-

pours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take

off immediately all contaminated clothing.

Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

ter for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER or

doctor/physician.

Hazardous components which must be listed on the label:

Trimethylolpropane poly(oxypropylene)triamine

octahydro-4,7-methano-1H-indenedimethylamine

Amines, polyethylenepoly-, triethylenetetramine fraction

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane

2-piperazin-1-ylethylamine

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aliphatic Amine

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Trimethylolpropane poly(oxypropylene)tria mine	39423-51-3	Xn; R21/22 Xi; R41 N; R51/53	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 20 - < 25
octahydro-4,7- methano-1H- indenedimethylamine	68889-71-4 272-573-7	Xn; R21/22 C; R34 Xi; R43	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 20 - < 25
Amines, polyethylene- poly-, triethylenetetra- mine fraction	90640-67-8 292-588-2 01- 2119487919-13	Xn; R21 C; R34 Xi; R43 R52/53	Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 12,5 - < 20
benzyl alcohol	100-51-6 202-859-9 01- 2119492630-38	Xn; R20/22	Acute Tox. 4; H332 Acute Tox. 4; H302	>= 10 - < 12,5
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	38294-69-8	C; R34 Xn; R21/22 R43 R52/53	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 10 - < 12,5
m- phenylene- bis (methylamine)	1477-55-0 216-032-5 01- 2119480150-50	C; R34 R52/53 Xn; R20/22 R43	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Aquatic Chronic 3; H412 Skin Sens. 1B; H317	>= 1 - < 2,5
2-piperazin-1- ylethylamine	140-31-8 205-411-0 01- 2119471486-30	C; R34 Xn; R21/22 R43 R52-R53	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412 Acute Tox. 3; H311	>= 1 - < 2,5

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			1; H318	
Toluene-4-sulphonic acid, monohydrate	6192-52-5	Xi; R36/37/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	>=1-<3
Low boiling point naph-	64742-95-6	Xn; R65	STOT SE 3; H336,	>= 0,1 - < 0,25
tha - unspecified	265-199-0 01- 2119455851-35	N; R51/53 R10 R67 R66 Xi; R37	H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Flam. Liq. 3; H226	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

Keep warm and in a quiet place.

Take off all contaminated clothing immediately.

If inhaled : Move to fresh air.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

If breathing is irregular or stopped, administer artificial respira-

tion.

In case of skin contact : Wash off immediately with soap and plenty of water.

Do NOT use solvents or thinners. If on clothes, remove clothes.

Burns must be treated by a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

If eye irritation persists, consult a specialist. If easy to do, remove contact lens, if worn.

If swallowed : Do NOT induce vomiting.

If a person vomits when lying on his back, place him in the

recovery position.

Call a physician immediately.

Give small amounts of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : corrosive effects

Burn

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Foam Dry powder Water mist

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: The pressure in sealed containers can increase under the

influence of heat.

Cool closed containers exposed to fire with water spray. Hazardous decomposition products formed under fire condi-

tions.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Further information : In the event of fire and/or explosion do not breathe fumes.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Immediately evacuate personnel to safe areas.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.

Evacuate personnel to safe areas. Use personal protective equipment.

Ensure adequate ventilation.

Inform the responsible authorities in case of gas leakage, or of

entry into waterways, soil or drains.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the envi-

ronment.

Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

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acid binder, universal binder, sawdust).

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours or spray mist.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective equipment.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is

being used.

Advice on protection against

fire and explosion

: Keep away from open flames, hot surfaces and sources of

ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before

breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep containers tightly closed in a dry, cool and wellventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.

Further information on stor-

age conditions

: Protect from moisture.

Advice on common storage : Keep away from isocyanates.

Do not store near acids.

Keep away from oxidizing agents.

Other data : Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this sub-

stance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Trimethylolpropane : End Use: Workers

poly(oxypropylene)triamine Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 1,6 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 14 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 3,48 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 0,8 mg/kg End Use: Workers

Amines, polyethylenepoly-, triethylenetetramine fraction

benzyl alcohol

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 0,57 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 1 mg/m3 End Use: Consumer use Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 0,25 mg/kg End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0,29 mg/m3 : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 450 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 90 mg/m3 End Use: Workers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects

Value: 47 mg/kg End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 9,5 mg/kg End Use: Consumers Exposure routes: Ingestion

Potential health effects: Short-term exposure, Systemic effects

Value: 25 mg/kg End Use: Consumers Exposure routes: Ingestion

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Potential health effects: Long-term exposure, Systemic effects

Value: 5 mg/kg End Use: Consumers Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 40,55 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 8,11 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects

Value: 28,5 mg/kg End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 5,7 mg/kg End Use: Workers

2-piperazin-1-ylethylamine

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects

Value: 20 mg/kg End Use: Workers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Local effects

Value: 0,04 mg/cm2 End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 3,3 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 3,6 mg/m3 End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term local effects

Value: 0,006 mg/cm2 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects

Value: 10 mg/kg End Use: Consumers Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 5,3 mg/m3 End Use: Consumers Exposure routes: Ingestion

Potential health effects: Short-term exposure, Systemic effects

Value: 1,5 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 21,4 mg/m3 End Use: Consumers

Exposure routes: Skin contact

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Potential health effects: Short-term exposure, Local effects

Value: 0,02 mg/cm2 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 1,7 mg/kg End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0,9 mg/m3 End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 0,3 mg/kg End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term local effects

Value: 0,003 mg/cm2 : End Use: Workers

Low boiling point naphtha -

unspecified

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 25 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 150 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 11 mg/kg End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 32 mg/m3 End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term exposure, Systemic effects

Value: 11 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Trimethylolpropane : Fresh water

poly(oxypropylene)triamine Value: 0,0044 mg/l

Marine water

Value: 0,00044 mg/l Intermittent releases Value: 0,044 mg/l Fresh water sediment Value: 0,02 mg/kg Marine sediment Value: 0,002 mg/kg

Soil

Value: 0,002 mg/kg Sewage treatment plant

Value: 10 mg/l

Amines, polyethylenepoly-, triethylenetetramine fraction

Sewage treatment plant

Value: 4,25 mg/l

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Fresh water Value:

0,135 mg/l

Fresh water sediment Value: 2,08 mg/kg Marine water Value: 0,0027 mg/l Marine sediment Value: 0,123 mg/kg

Soil

Value: 1,67 mg/kg

benzyl alcohol : Fresh water

Value: 1 mg/l Marine water Value: 0,1 mg/l Fresh water sediment Value: 5,27 mg/kg Marine sediment Value: 0,527 mg/kg

Soil

Value: 0,456 mg/kg Sewage treatment plant

Value: 39 mg/l Intermittent releases Value: 2,3 mg/l

2-piperazin-1-ylethylamine : Fresh water

Value: 0,058 mg/l Marine water Value: 0,0058 mg/l Intermittent releases Value: 0,58 mg/l Fresh water sediment Value: 215 mg/kg Marine sediment Value: 21,5 mg/kg

Soil Value: 42,9 mg/kg

Sewage treatment plant

Value: 250 mg/l

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system effective ventilation in all processing areas

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Do not wear contact lenses.

Ensure that eyewash stations and safety showers are dose to

the workstation location.

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rub-

ber category III according to EN 374.

Skin and body protection : Protective suit

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Respiratory protection : Use respirator when performing operations involving potential

exposure to vapour of the product.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used. Respirator with a vapour filter (EN 141)

Protective measures : Avoid contact with skin.

Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : purple

Odour : ammoniacal

Odour Threshold : not determined

pH : not determined

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 150 °C

Flash point : 150 °C

Evaporation rate : not determined

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : not determined

Density : 1,07 g/cm3 (25 °C)

Bulk density : not determined

Solubility(ies)

Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

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Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

Viscosity

Viscosity, dynamic : 400 - 700 mPa.s (25 °C)

Viscosity, kinematic : not determined

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

Surface tension : not determined

Sublimation point : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:

Acids

Strong oxidizing agents

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: This product may release the following:

Nitrogen oxides (NOx) Carbon monoxide Carbon dioxide (CO2)

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 718,22 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute demal toxicity : Acute toxicity estimate : 1.495 mg/kg

Method: Calculation method

Components:

Trimethylolpropane poly(oxypropylene)triamine:

Acute oral toxicity : LD50 (Rat, female): 550 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute demal toxicity : LD50 (Rat, male and female): > 1.000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

Acute oral toxicity : LD50 (Rat, male and female): 1.716 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): 1.465 mg/kg

Method: OECD Test Guideline 402

GLP: yes

benzyl alcohol:

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: OECD Test Guideline 403

GLP: yes

2-piperazin-1-ylethylamine:

Acute oral toxicity : LD50 (Rat, male): 2.097 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male): 866 mg/kg

Low boiling point naphtha - unspecified:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

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Acute demal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks: Acute dermal irritation/corrosion

Components:

Trimethylolpropane poly(oxypropylene)triamine:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Mild skin irritation

GLP: yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive

GLP: yes

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

2-piperazin-1-ylethylamine:

Species: Rabbit Result: Corrosive

Low boiling point naphtha - unspecified:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation

Product:

Remarks: Severe eye irritation

Components:

Amines, polyethylenepoly-, triethylenetetramine fraction:

Species: Rabbit

Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes.

GLP: yes

benzyl alcohol:

Species: Rabbit

Method: OECD Test Guideline 405

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Result: Eye irritation

GLP: yes

2-piperazin-1-ylethylamine:

Species: Rabbit

Result: Risk of serious damage to eyes.

Low boiling point naphtha - unspecified:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

GLP: yes

Respiratory or skin sensitisation

Components:

Trimethylolpropane poly(oxypropylene)triamine:

Test Type: Buehler Test Exposure routes: Demal Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

GLP: yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

Test Type: Buehler Test Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

2-piperazin-1-ylethylamine:

Test Type: Maximisation Test (GPMT)

Exposure routes: Demal Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

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Aspiration toxicity

Components:

Low boiling point naphtha - unspecified:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other

aquatic invertebrates

: Remarks: No data available

Components:

Trimethylolpropane poly(oxypropylene)triamine:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 13 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,4

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Amines, polyethylenepoly-, triethylenetetramine fraction:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 31,1 mg/l

Exposure time: 48 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.2.

GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricomutum (green algae)): 20 mg/l

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Exposure time: 72 h Test Type: semi-static test

Method: OECD Test Guideline 201

GLP: yes

benzyl alcohol:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 230 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 770

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

2-piperazin-1-ylethylamine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.190 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 58 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricomutum (green algae)): > 1.000

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Low boiling point naphtha - unspecified:

Toxicity to fish : LL50 (Fish): 9,2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3,2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata): 2,6 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

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Components:

Trimethylolpropane poly(oxypropylene)triamine:

Biodegradability : Test Type: aerobic

Result: Not readily biodegradable. Method: OECD Test Guideline 301F

GLP: yes

2-piperazin-1-ylethylamine:

Biodegradability : Result: Not readily biodegradable.

Method: OECD Test Guideline 301F

GLP: yes

Low boiling point naphtha - unspecified:

Biodegradability : Result: Readily biodegradable.

Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Trimethylolpropane poly(oxypropylene)triamine:

Partition coefficient: n- : log Pow: -1,13 (20 °C)

octanol/water pH: 12,7 GLP: yes

2-piperazin-1-ylethylamine:

Partition coefficient: n- : log Pow: -1,48 (20 °C)

octanol/water

12.4 Mobility in soil

Components:

2-piperazin-1-ylethylamine:

Distribution among environ- : Medium:Soil mental compartments : Koc: 37000

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

Additional ecological informa: Remarks: An environmental hazard cannot be excluded in the

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tion event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Container hazardous when empty.

Do not dispose of with domestic refuse.

Do not mix waste streams during collection.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

 ADR/RID
 : UN 2735

 IMDG
 : UN 2735

 IATA
 : UN 2735

14.2 UN proper shipping name

ADR/RID : AMINES, LIQUID, CORROSIVE, N.O.S.

(octahydro-4,7-methano-1H-indenedimethylamine)

IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.

()

IATA : Amines, liquid, corrosive, n.o.s.

()

14.3 Transport hazard class(es)

 ADR/RID
 : 8

 IMDG
 : 8

 IATA
 : 8

14.4 Packing group

ADR/RID

Packing group : III
Classification Code : C7
Hazard Identification Number : 80
Labels : 8

IMDG

Packing group : III
Labels : 8
EmS Code : F-A, S-B

IATA

Packing instruction (cargo : 856

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aircraft)

Packing instruction (passen-: 852

ger aircraft)

Packing group : 111 Labels : 8

14.5 Environmental hazards

ADR/RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

: Low boiling point naphtha - unspeci-

fied

Xylene, mixture of isomers

2-methoxy-1-methylethyl acetate

toluene

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: This product does not contain substances of very high concern (Regu-

lation (EC) No 1907/2006 (REACH),

Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-

accident hazards involving dangerous substances

Quantity 1 Quantity 2

Dangerous for the envi-9b 200 t 500 t

ronment

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases

Flammable. R10

Harmful by inhalation and if swallowed. R20/22

Hamful in contact with skin. R21

Harmful in contact with skin and if swallowed. R21/22

R34 Causes burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

20/21



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R37	:	Irritating to respiratory system.			
R41	:	: Risk of serious damage to eyes.			
R43	:	: May cause sensitisation by skin contact.			
R51/53	:	To xic to aquatic organisms, may causeffects in the aquatic environment.	se long-term adverse		
R52	:	Harmful to aquatic organisms.			
R52/53	:	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
R53	:	: May cause long-term adverse effects in the aquatic environment.			
R65	:	: Harmful: may cause lung damage if swallowed.			
R66	:	: Repeated exposure may cause skin dryness or cracking.			
R67	:	: Vapours may cause drowsiness and dizziness.			
Full text of H-Statements					
H226	:	Flammable liquid and vapour.			
H302	:	Harmful if swallowed.			
H304	:	May be fatal if swallowed and enters	airways.		
H311	:	Toxic in contact with skin.	•		
H312	:	: Hamful 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.			
H319	:	Causes serious eye irritation.			
H332	:	Hamful if inhaled.			
H335	:	May cause respiratory irritation.			
H336	:	May cause drowsiness or dizziness.			
H411	:	: Toxic to aquatic life with long lasting effects.			
H412	:	Harmful to aquatic life with long lasting	ng effects.		

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic

Asp. Tox.

Eye Dam.

Eye Irrit.

Flam. Liq.

Skin Corr.

Chronic aquatic toxicity

Aspiration hazard

Serious eye damage

Eye irritation

Flammable liquids

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.