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

1.1. Product identifier

Mixture identification:

Trade name: 3C Sealants 2 in 1 Wood Repair Resin comp. B

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

Recommended use:

Epoxy hardener

For professional use only

Uses advised against:

Not intended for consumer use

1.3. Details of the supplier of the safety data sheet

Supplier:

County Construction Chemicals LTD.

Unit 4 Chingford Industrial Centre

Hall Lane, London, E4 8DJ

1.4. Emergency telephone number

Tel.: 020 8524 1931

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.

Danger, Eye Dam. 1, Causes serious eye damage.

Warning, Skin Sens. 1, May cause an allergic skin reaction.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing vapours or spray.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye/face protection.

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

Special Provisions:

None

Contains

Fatty acids, C18 unsatd., dimers with tall-oil fatty acids and TETA adduct

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
m-phenylenebis(methylamine)
2,4,6-tris(dimethylaminomethyl)phenol
phenol, styrenated
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol
Amines, polyethylenepoly-, triethylenetetramine fraction
Bis[(dimethylamino)methyl]phenol

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 20% - < 25%	benzyl alcohol	Index number: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 REACH No.: 01-2119492630-38	3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Oral Acute Tox. 4 H302 3.3/2 Eye Irrit. 2 H319
>= 15% - < 20%	Fatty acids, C18 unsatd., dimers with tall-oil fatty acids and TETA adduct	CAS: 68082-29-1	3.2/1B Skin Corr. 1B H314 3.4.2/1 Skin Sens. 1 H317 4.1/C2 Aquatic Chronic 2 H411
>= 7% - < 10%	phenol, styrenated	CAS: 61788-44-1 EC: 262-975-0 REACH No.: 01-2119980970-27	3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317 4.1/C2 Aquatic Chronic 2 H411
>= 3% - < 5%	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	CAS: 25513-64-8 EC: 247-063-2 REACH No.: 01-2119560598-25	3.1/4/Oral Acute Tox. 4 H302 3.2/1A Skin Corr. 1A H314 3.3/1 Eye Dam. 1 H318 3.4.2/1A Skin Sens. 1A H317
>= 3% - < 5%	m-phenylenebis(methylamine)	CAS: 1477-55-0 EC: 216-032-5 REACH No.: 01-2119480150-50	3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412 EUH071
>= 2.5% - < 3%	2,4,6-tris(dimethylaminomethyl)phenol	CAS: 90-72-2 EC: 202-013-9 REACH No.: 01-2119560597-27	3.2/1C Skin Corr. 1C H314 3.4.2/1B Skin Sens. 1B H317

>= 1% - < 2.5%	Salicylic acid	CAS: EC: REACH No.:	69-72-7 200-712-3 01-2119486984-17	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318
>= 1% - < 2.5%	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	CAS: EC: REACH No.:	9046-10-0 618-561-0 01-2119557899-12	3.2/1C Skin Corr. 1C H314 4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 2.5%	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	CAS: REACH No.:	68512-30-1 01-2119555274-38	3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317 4.1/C3 Aquatic Chronic 3 H412
>= 0.3% - < 0.5%	Amines, polyethylenepoly-, triethylenetetramine fraction	CAS: EC: REACH No.:	90640-67-8 292-588-2 01-2119487919-13	3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 3.4.2/1 Skin Sens. 1 H317 4.1/C3 Aquatic Chronic 3 H412
>= 0.3% - < 0.5%	Bis[(dimethylamino) methyl]phenol	CAS: EC:	71074-89-0 275-162-0	3.2/1C Skin Corr. 1C H314 3.4.2/1B Skin Sens. 1B H317
>= 0.1% - < 0.3%	xylene	Index number: CAS: EC: REACH No.:	601-022-00-9 1330-20-7 215-535-7 01-2119488216-32	2.6/3 Flam. Liq. 3 H226 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Inhal Acute Tox. 4 H332 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H335 3.9/2 STOT RE 2 H373 4.1/C3 Aquatic Chronic 3 H412

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

CONSULT A PHYSICIAN IMMEDIATELY.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None known

4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
CO2, powder extinguisher, foam, water spray.
Extinguishing media which must not be used for safety reasons:
Water jet.

5.2. Special hazards arising from the substance or mixture
Burning produces heavy smoke.
Do not inhale explosion and/or combustion gases (carbon monoxide, carbon dioxide, oxides of nitrogen).

5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up
Suitable material for collection: inert absorbent material (e.g. sand, vermiculite)
After the product has been recovered, rinse the area and materials involved.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
See chapter 10.5
Instructions as regards storage premises:
Keep container tightly closed in a cool, well-ventilated place, away from heat.

7.3. Specific end use(s)
See chapter 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

m-phenylenebis(methylamine) - CAS: 1477-55-0

ACGIH - STEL: Ceiling 0.1 mg/m3 - Notes: Skin - Eye, skin, and GI irr

xylene - CAS: 1330-20-7

WEL -- Country: UNITED KINGDOM - TWA: 220 mg/m3, 50 ppm - STEL: 441 mg/m3, 100 ppm

EU - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

DNEL Exposure Limit Values

benzyl alcohol - CAS: 100-51-6

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

Consumer: 4 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 40 mg/kg - Consumer: 20 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 8 mg/kg - Consumer: 4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 110 mg/m3 - Consumer: 27 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 22 mg/m3 - Consumer: 5.4 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine - CAS: 25513-64-8

Consumer: 0.05 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

m-phenylenebis(methylamine) - CAS: 1477-55-0

Worker Professional: 0.33 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 0.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 1.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2,4,6-tris(dimethylaminomethyl)phenol - CAS: 90-72-2

Worker Professional: 0.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 0.00031 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Salicylic acid - CAS: 69-72-7

Worker Professional: 5 mg/m3 - Consumer: 4 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 2.3 mg/kg - Consumer: 1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 4 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia - CAS: 9046-10-0

Worker Professional: 2.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 1.36 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol - CAS: 68512-30-1

Consumer: 4 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 16.4 mg/kg - Consumer: 8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 57 mg/m3 - Consumer: 28 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Amines, polyethylenepoly-, triethylenetetramine fraction - CAS: 90640-67-8

Worker Professional: 5380 mg/m3 - Consumer: 1600 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 0.57 mg/kg - Consumer: 0.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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

Consumer: 0.41 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 0.028 mg/cm2 - Consumer: 0.43 mg/cm2 - Exposure: Human Dermal - Frequency: Long Term, local effects

xylene - CAS: 1330-20-7

Worker Professional: 221 mg/m3 - Consumer: 65.3 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 442 mg/m3 - Consumer: 260 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 442 mg/m3 - Consumer: 260 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 221 mg/m3 - Consumer: 65.3 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 212 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 12.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

benzyl alcohol - CAS: 100-51-6

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: Freshwater sediments - Value: 5.27 mg/kg

Target: Marine water sediments - Value: 0.527 mg/kg

Target: Soil (agricultural) - Value: 0.456 mg/kg

Target: Microorganisms in sewage treatments (STP) - Value: 39 mg/kg

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine - CAS: 25513-64-8

Target: Marine water - Value: 0.01 mg/l

Target: Fresh Water - Value: 0.102 mg/l

Target: Microorganisms in sewage treatments (STP) - Value: 72 mg/l

Target: Marine water sediments - Value: 0.062 mg/kg

Target: Freshwater sediments - Value: 0.622 mg/kg

Target: Soil (agricultural) - Value: 10 mg/kg

m-phenylenebis(methylamine) - CAS: 1477-55-0

Target: Marine water - Value: 0.0094 mg/l

Target: Fresh Water - Value: 0.094 mg/l

Target: Marine water sediments - Value: 0.043 mg/kg

Target: Freshwater sediments - Value: 0.43 mg/kg

Target: Soil (agricultural) - Value: 0.045 mg/kg

Target: Microorganisms in sewage treatments (STP) - Value: 10 mg/l

2,4,6-tris(dimethylaminomethyl)phenol - CAS: 90-72-2

Target: Fresh Water - Value: 0.084 mg/l

Target: Marine water - Value: 0.0084 mg/l

Salicylic acid - CAS: 69-72-7

Target: Fresh Water - Value: 0.2 mg/l

Target: Marine water - Value: 0.02 mg/l

Target: Microorganisms in sewage treatments (STP) - Value: 162 mg/l

Target: Freshwater sediments - Value: 1.42 mg/kg

Target: Marine water sediments - Value: 0.142 mg/kg

Target: Soil (agricultural) - Value: 0.166 mg/kg

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia - CAS: 9046-10-0
- Target: Marine water - Value: 0.014 mg/l
- Target: Fresh Water - Value: 0.015 mg/l
- Target: Marine water sediments - Value: 0.125 mg/kg
- Target: Freshwater sediments - Value: 0.132 mg/kg
- Target: Microorganisms in sewage treatments (STP) - Value: 7.5 mg/l
- Target: Soil (agricultural) - Value: 0.0176 mg/kg

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol - CAS: 68512-30-1
- Target: Marine water - Value: 1400 ppm
- Target: Fresh Water - Value: 14000 ppm
- Target: Marine water sediments - Value: 5.3 mg/kg
- Target: Freshwater sediments - Value: 52.9 mg/kg
- Target: Microorganisms in sewage treatments (STP) - Value: 2.4 mg/l

Amines, polyethylenepoly-, triethylenetetramine fraction - CAS: 90640-67-8
- Target: Marine water sediments - Value: 19.2 mg/kg
- Target: Freshwater sediments - Value: 95.9 mg/kg
- Target: Soil (agricultural) - Value: 19.1 mg/kg
- Target: Fresh Water - Value: 0.19 mg/l
- Target: Marine water - Value: 0.038 mg/l

xylene - CAS: 1330-20-7
- Target: Marine water - Value: 0.327 mg/l
- Target: Fresh Water - Value: 0.327 mg/l
- Target: Microorganisms in sewage treatments (STP) - Value: 6.58 mg/l
- Target: Marine water sediments - Value: 12.46 mg/kg
- Target: Freshwater sediments - Value: 12.46 mg/kg
- Target: Soil (agricultural) - Value: 2.31 mg/kg

8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Eye protection:

Eye glasses with side protection (EN 166).

Skin protection:

Use suitable clothing that provides complete protection to the skin according to activity and exposure (EN14605 / EN13982), e.g. overall, apron, safety shoes, suitable clothing.

Hands protection:

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling, use chemical resistant gloves.

Suitable materials for safety gloves; EN 16523:

NBR (Nitril rubber): thickness >= 0.4 mm; permeation time >= 480 min.

FKM (Fluorinated rubber): thickness >= 0.4 mm; permeation time >= 480 min.

The selection of suitable gloves does not only depend on the material, but also on other quality characteristics and varies from manufacturer to another one, and on the manner and times of use of the mixture.

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Combination filtering device (EN 14387).

Environmental exposure controls:

See chapter 6.2

Appropriate engineering controls:

See section 7.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	transglossy thick paste	--	--
Odour:	typical	--	--
Odour threshold:	nd	--	--
pH:	nd	--	--
Melting point / freezing point:	nd	--	--
Initial boiling point and boiling range:	nd	--	--
Flash point:	> 93 °C	--	Internal assessment
Evaporation rate:	nd	--	--
Solid/gas flammability:	nd	--	--
Upper/lower flammability or explosive limits:	nd	--	--
Vapour pressure:	nd	--	--
Vapour density:	nd	--	--
Relative density:	1.25 ± 0.03 kg/l	Internal method IPPSPC	--
Solubility in water:	nd	--	--
Solubility in oil:	nd	--	--
Partition coefficient (n-octanol/water):	nd	--	--
Auto-ignition temperature:	nd	--	--
Decomposition temperature:	nd	--	--
Viscosity:	nd	--	--
Explosive properties:	nd	--	--
Oxidizing properties:	nd	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	nd	--	--
Conductivity:	nd	--	--

Legend:
na = not applicable - nd = not available

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
The product can generate liquid phases over time.
10.3. Possibility of hazardous reactions
It may generate flammable and/or toxic gases on contact with elementary metals (alkalis and alkaline earth), oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, powerful oxidising agents, powerful reducing agents.
10.4. Conditions to avoid
Avoid to keep near heat sources.
10.5. Incompatible materials
See chapter 10.3
10.6. Hazardous decomposition products
No hazardous decomposition products when stored and handled correctly.
See chapter 5.2

SECTION 11: Toxicological information

11.1. Information on toxicological effects
There are no data available on the mixture itself.
Toxicological information of the product:
FLEXIPOX XT 8H comp. B
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
b) skin corrosion/irritation
The product is classified: Skin Corr. 1B H314
c) serious eye damage/irritation
The product is classified: Eye Dam. 1 H318
d) respiratory or skin sensitisation
The product is classified: Skin Sens. 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
Not classified
Based on available data, the classification criteria are not met
h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
j) aspiration hazard

Not classified
Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:
benzyl alcohol - CAS: 100-51-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Male rat 1620 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 4.1 mg/l - Duration: 4h
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
phenol, styrenated - CAS: 61788-44-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine - CAS: 25513-64-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 910 mg/kg
m-phenylenebis(methylamine) - CAS: 1477-55-0
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 3100 mg/kg
Test: LD50 - Route: Oral - Species: Rat 930 mg/kg
Test: LC50 - Route: Inhalation aerosol - Species: Rat 1.34 mg/l - Duration: 4h
2,4,6-tris(dimethylaminomethyl)phenol - CAS: 90-72-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2169 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 1 ml/kg - Duration: 6H
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia - CAS: 9046-10-0
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2885 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 2980 mg/kg
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol - CAS: 68512-30-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
Amines, polyethylenepoly-, triethylenetetramine fraction - CAS: 90640-67-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 1716 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 1465 mg/kg
xylene - CAS: 1330-20-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 3523 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 12126 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat 27124 mg/m3 - Duration: 4h

SECTION 12: Ecological information

Adopt sound working practices, so that the product is not released into the environment.
12.1. Toxicity
Ecotoxicological studies of the product are not available.
Ecotoxicological information of the main substances found in the mixture:
benzyl alcohol - CAS: 100-51-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 460 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae 770 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia 230 mg/l - Duration h: 48
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia 51 mg/l - Notes: 21d

Fatty acids, C18 unsatd., dimers with tall-oil fatty acids and TETA adduct - CAS: 68082-29-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 1 mg/l - Duration h: 96
phenol, styrenated - CAS: 61788-44-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 14.8 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae 3.14 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine - CAS: 25513-64-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 174 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia 31.5 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae 29.5 mg/l - Duration h: 72
m-phenylenebis(methylamine) - CAS: 1477-55-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 87.6 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae 20.3 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia 15.2 mg/l - Duration h: 48
2,4,6-tris(dimethylaminomethyl)phenol - CAS: 90-72-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 175 mg/l - Duration h: 96
Endpoint: LC50 - Species: Daphnia 718 mg/l - Duration h: 96
Endpoint: EbC50 - Species: Algae 66 mg/l - Duration h: 72
Endpoint: NOEC - Species: Algae 6.25 mg/l - Duration h: 72
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia - CAS: 9046-10-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 15 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 80 mg/l - Duration h: 48
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol - CAS: 68512-30-1
a) Aquatic acute toxicity:
Endpoint: EL50 - Species: Daphnia 14 mg/l - Duration h: 48
Endpoint: EL50 - Species: Algae 15 mg/l - Duration h: 72
Endpoint: LL50 - Species: Fish 25.8 mg/l - Duration h: 96
Amines, polyethylenepoly-, triethylenetetramine fraction - CAS: 90640-67-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 330 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 31.1 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae 20 mg/l - Duration h: 72
xylene - CAS: 1330-20-7
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae 0.44 mg/l - Duration h: 72

12.2. Persistence and degradability

Fatty acids, C18 unsatd., dimers with tall-oil fatty acids and TETA adduct - CAS: 68082-29-1
Biodegradability: Non-readily biodegradable
phenol, styrenated - CAS: 61788-44-1
Biodegradability: Non-readily biodegradable
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine - CAS: 25513-64-8
Biodegradability: Non-readily biodegradable
m-phenylenebis(methylamine) - CAS: 1477-55-0
Biodegradability: Non-readily biodegradable
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia - CAS: 9046-10-0
Biodegradability: Non-readily biodegradable
Amines, polyethylenepoly-, triethylenetetramine fraction - CAS: 90640-67-8
Biodegradability: Non-readily biodegradable

xylene - CAS: 1330-20-7

Biodegradability: Readily biodegradable

12.3. Bioaccumulative potential

Amines, polyethylenepoly-, triethylenetetramine fraction - CAS: 90640-67-8

Bioaccumulation: Not bioaccumulative

xylene - CAS: 1330-20-7

Bioaccumulation: Not bioaccumulative

12.4. Mobility in soil

Amines, polyethylenepoly-, triethylenetetramine fraction - CAS: 90640-67-8

Mobility in soil: Not mobile

xylene - CAS: 1330-20-7

Mobility in soil: Mobile

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow to enter drains or water courses.

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

SECTION 14: Transport information

14.1. UN number

ADR-UN Number:	1759
IATA-UN Number:	1759
IMDG-UN Number:	1759

14.2. UN proper shipping name

ADR-Shipping Name:	CORROSIVE SOLID, N.O.S. (Fatty acids, C18 unsatd., dimers with tall-oil fatty acids and TETA adduct, m-phenylenebis(methylamine))
IATA-Shipping Name:	CORROSIVE SOLID, N.O.S. (Fatty acids, C18 unsatd., dimers with tall-oil fatty acids and TETA adduct, m-phenylenebis(methylamine))
IMDG-Shipping Name:	CORROSIVE SOLID, N.O.S. (Fatty acids, C18 unsatd., dimers with tall-oil fatty acids and TETA adduct, m-phenylenebis(methylamine))

14.3. Transport hazard class(es)

ADR-Class:	8
ADR - Hazard identification number:	80
IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8

14.4. Packing group

ADR-Packing Group:	II
IATA-Packing Group:	II
IMDG-Packing Group:	II

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No

14.6. Special precautions for user

ADR-Subsidiary hazards: -
ADR-S.P.: 274
ADR-Transport category (Tunnel restriction code): 2 (E)
IATA-Passenger Aircraft: 859
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 863
IATA-S.P.: A3 A803
IATA-ERG: 8L
IMDG-EmS: F-A , S-B
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
No restriction
Restrictions related to the substances contained:
Restriction 3
Restriction 40

Volatile Organic compounds - VOCs = 20.26 %

Where applicable, refer to the following italian regulatory provisions :
Directive 2012/18/EU (Seveso III)
Directive 2010/75/EU
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Text of phrases referred to under heading 3:
H332 Harmful if inhaled.
H302 Harmful if swallowed.

H319 Causes serious eye irritation.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.
H312 Harmful in contact with skin.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled or swallowed.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
Safety data sheets of raw materials suppliers.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
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).
IMDG:	International Maritime Code for Dangerous Goods.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
WGK:	German Water Hazard Class.
N.A.	Not Applicable / Not Available