

Safety Data Sheet

3C WOOD REPAIR RESIN COMPONENT B






Safety Data Sheet dated 16/02/2018, version 1

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

- 1.1. Product identifier
Trade name: 3C WOOD REPAIR RESIN COMPONENT B
Trade code: CCC0081
- 1.2. Relevant identified uses of the substance or mixture
Recommended use:
Epoxy Hardner
- 1.3. Details of the supplier of the safety data sheet
Supplier: County Construction Chemicals
Unit 4 Chingford Industrial Centre
Hall Lane
Chingford, London
E4 8DJ
England
T: 020 8524 1931 F: 020 8529 0103
E: info@countyconchem.co.uk
- 1.4. Emergency telephone number: 020 8524 1931

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
-  Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
 -  Warning, Skin Sens. 1A, May cause an allergic skin reaction.
 -  Aquatic Chronic 2, Toxic 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.
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements:
P280 Wear protective gloves/clothing and eye/face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.
- Special Provisions:
None
- Contains
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine
Polyetherdiamin
phenol, styrenated
2-piperazin-1-ylethylamine
- 2.3. Other hazards
vPvB Substances: None - PBT Substances: None

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
























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
>= 15% - < 20%	phenol, styrenated	CAS: 61788-44-1 EC: 262-975-0 REACH No.: 01-2119980970-27	 3.2/2 Skin Irrit. 2 H315  3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317  4.1/C2 Aquatic Chronic 2 H411
>= 7% - < 10%	Polyetherdiamin	CAS: 9046-10-0 EC: 618-561-0 REACH No.: 01-2119557899-12	 3.1/4/Oral Acute Tox. 4 H302  3.2/1B Skin Corr. 1B H314  4.1/C3 Aquatic Chronic 3 H412
>= 7% - < 10%	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA	CAS: 68082-29-1 EC: 500-191-5	 3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317  4.1/C2 Aquatic Chronic 2 H411
>= 7% - < 10%	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine	CAS: 68071-65-8 EC: 500-187-3	 3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.4.2/1A Skin Sens. 1A H317  4.1/C3 Aquatic Chronic 3 H412
>= 5% - < 7%	2-piperazin-1-ylethylamine	Index number: 612-105-00-4 CAS: 140-31-8 EC: 205-411-0 REACH No.: 01-2119471486-30	 3.1/3/Dermal Acute Tox. 3 H311  3.1/4/Oral Acute Tox. 4 H302  3.2/1A Skin Corr. 1A H314  3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317  4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 3%	4-tert-butylphenol	CAS: 98-54-4 EC: 202-679-0 REACH No.: 01-2119489419-21	 3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.7/2 Repr. 2 H361f  4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 3%	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  3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317  4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 3%	Amines, polyethylenepoly-, triethylenetetramine fraction	CAS: 90640-67-8 EC: 292-588-2 REACH No.: 01-2119487919-13	 3.1/4/Oral Acute Tox. 4 H302  3.2/1B Skin Corr. 1B H314  3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317  4.1/C3 Aquatic Chronic 3 H412  3.1/4/Dermal Acute Tox. 4 H312

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>= 1% - < 3%	trimethylhexane-1,6-diamine	CAS: 25620-58-0 EC: 247-134-8	 3.1/4/Oral Acute Tox. 4 H302  3.2/1C Skin Corr. 1C H314  3.4.2/1A Skin Sens. 1A H317  4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 3%	bis(isopropyl)naphthalene	CAS: 38640-62-9 EC: 254-052-6 REACH No.: 01-2119565150-48	 3.10/1 Asp. Tox. 1 H304  4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 3%	amines, coco alkyl	CAS: 61788-46-3 EC: 262-977-1	 3.1/4/Oral Acute Tox. 4 H302  3.10/1 Asp. Tox. 1 H304  3.2/1B Skin Corr. 1B H314  3.8/3 STOT SE 3 H335  3.9/2 STOT RE 2 H373  4.1/A1 Aquatic Acute 1 H400 M=10.  4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 3%	Amines, polyethylenepoly-, tetraethylenepentamine fraction	CAS: 90640-66-7 EC: 292-587-7 REACH No.: 01-2119487290-37	 3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Oral Acute Tox. 4 H302  3.2/1B Skin Corr. 1B H314  3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317  4.1/C2 Aquatic Chronic 2 H411
>= 1% - < 3%	Formaldehyde, reaction products with 1,3-benzenedimethanamine and p-tert-butylphenol	CAS: 158800-93-2	 3.1/4/Oral Acute Tox. 4 H302  3.1/4/Dermal Acute Tox. 4 H312  3.2/1B Skin Corr. 1B H314  3.4.2/1 Skin Sens. 1 H317  4.1/C4 Aquatic Chronic 4 H413
>= 0.1% - < 0.5%	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

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 ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

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

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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.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

DNEL Exposure Limit Values

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

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

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

Worker Professional: 0.0214 mg/l - Consumer: 0.0053 mg/l - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 0.0036 mg/l - Consumer: 0.0009 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 20 mg/kg - Consumer: 10 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 3.3 mg/kg - Consumer: 1.7 mg/kg - Exposure: Human Dermal - 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: 8 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

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

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bis(isopropyl)naphthalene - CAS: 38640-62-9

Consumer: 2.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 30 mg/m³ - Consumer: 7.4 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 4.3 mg/kg - Consumer: 2.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

amines, coco alkyl - CAS: 61788-46-3

Consumer: 0.04 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 0.38 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.09 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 600 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Amines, polyethylenepoly-, tetraethylenepentamine fraction - CAS: 90640-66-7

Worker Professional: 1.29 mg/m³ - Consumer: 0.38 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.74 mg/kg - Consumer: 0.32 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 10 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 0.53 mg/kg - Exposure: Human Oral - 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

PNEC Exposure Limit Values

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

Target: Fresh Water - Value: 0.058 mg/l

Target: Marine water - Value: 0.0058 mg/l

Target: Freshwater sediments - Value: 215 mg/kg

Target: Marine water sediments - Value: 21.5 mg/kg

Target: Microorganisms in sewage treatments - Value: 250 mg/l

Target: Soil (agricultural) - Value: 42.9 mg/kg

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

bis(isopropyl)naphthalene - CAS: 38640-62-9

Target: Fresh Water - Value: 0.00026 mg/l

Target: Marine water - Value: 0.000026 mg/l

Target: Freshwater sediments - Value: 0.94 mg/kg

Target: Marine water sediments - Value: 0.094 mg/kg

Target: Soil (agricultural) - Value: 0.19 mg/kg

amines, coco alkyl - CAS: 61788-46-3

Target: Fresh Water - Value: 0.00026 mg/l

Target: Marine water - Value: 0.000026 mg/l

Target: Freshwater sediments - Value: 0.1794 mg/l

Target: Marine water sediments - Value: 0.01794 mg/kg

Target: Microorganisms in sewage treatments - Value: 0.5 mg/l

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

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

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:

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

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 374:

NBR (nitrile rubber).

FKM (fluoro rubber).

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:

Combination filtering device (DIN EN 141).

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If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
 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:	colored thick paste	Internal method IPASVS - IPCOVS	--
Odour:	typical	--	Internal assessment
Odour threshold:	nd	--	--
pH:	nd	--	--
Melting point / freezing point:	nd	--	--
Initial boiling point and boiling range:	nd	--	--
Flash point:	> 83 °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:	1.20 ± 0.02 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
 Stable under normal conditions
- 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.

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Toxicological information of the main substances found in the product:

phenol, styrenated - CAS: 61788-44-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Polyetherdiamin - CAS: 9046-10-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 480 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 2090 mg/kg

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA - CAS: 68082-29-1

a) acute toxicity:

Test: LD50 - Route: Oral > 16000 mg/kg

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

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit 866 mg/kg

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

a) acute toxicity:

Test: LC50 - Route: Inhalation Mist - Species: Rat 1.34 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat > 3100 mg/kg

Test: LD50 - Route: Oral - Species: Rat 930 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

b) skin corrosion/irritation:

Test: Skin Corrosive - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization Positive

trimethylhexane-1,6-diamine - CAS: 25620-58-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 910 mg/kg

bis(isopropyl)naphthalene - CAS: 38640-62-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 4000 mg/kg

Test: LC50 - Route: Skin - Species: Rat > 4000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5.6 mg/l

amines, coco alkyl - CAS: 61788-46-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 1240 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Amines, polyethylenepoly-, tetraethylenepentamine fraction - CAS: 90640-66-7

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 1000 mg/kg

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 2169 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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:

phenol, styrenated - CAS: 61788-44-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 5.5 mg/l - Duration h: 96

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- Endpoint: IC50 - Species: Algae 3.14 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48
Polyetherdiamin - CAS: 9046-10-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 15 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae 135 mg/l - Duration h: 72
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with TETA - CAS: 68082-29-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 1 mg/l - Duration h: 96
2-piperazin-1-ylethylamine - CAS: 140-31-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 2190 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia 58 mg/l - Duration h: 48
m-phenylenebis(methylamine) - CAS: 1477-55-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 87.6 mg/l - Duration h: 96
Endpoint: IC50 - Species: Algae 20.3 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia 15.2 mg/l - Duration h: 48
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: IC50 - Species: Algae 20 mg/l - Duration h: 72
bis(isopropyl)naphthalene - CAS: 38640-62-9
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia 0.013 mg/l
amines, coco alkyl - CAS: 61788-46-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 0.84 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae 0.08 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia 0.32 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: EC50 - Species: Algae 84 mg/l - Duration h: 72
12.2. Persistence and degradability
N.A.
12.3. Bioaccumulative potential
N.A.
12.4. Mobility in soil
N.A.
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
None

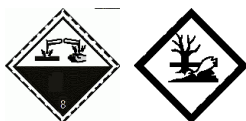
SECTION 13: Disposal considerations

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

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ADR-Shipping Name:	CORROSIVE SOLID, N.O.S. (Polyetherdiamin)	
IATA-Shipping Name:	CORROSIVE SOLID, N.O.S. (Polyetherdiamin)	
IMDG-Shipping Name:	CORROSIVE SOLID, N.O.S. (Polyetherdiamin)	
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-Environmental Pollutant:	Yes	
IMDG-Marine pollutant:	Marine Pollutant	
Most important toxic component:	4-tert-butylphenol	
14.6. Special precautions for user		
ADR-Subsidiary risks:	-	
ADR-S.P.:	274	
ADR-Transport category (Tunnel restriction code):	2 (E)	
IATA-Passenger Aircraft:	859	
IATA-Subsidiary risks:	-	
IATA-Cargo Aircraft:	863	
IATA-S.P.:	A3 A803	
IATA-ERG:	8L	
IMDG-EmS:	F-A , S-B	
IMDG-Subsidiary risks:	-	
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) 2015/1221 (ATP 7 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:
No restriction.

Volatile Organic compounds - VOCs = 0.39 %
Volatile CMR substances = 0.00 %

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
Product belongs to category: E2

15.2. Chemical safety assessment

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

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SECTION 16: Other information

Text of phrases referred to under heading 3:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H412 Harmful to aquatic life with long lasting effects.
- H318 Causes serious eye damage.
- H311 Toxic in contact with skin.
- H361f Suspected of damaging the unborn child.
- H410 Very toxic to aquatic life with long lasting effects.
- H332 Harmful if inhaled.
- H312 Harmful in contact with skin.
- 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.
- H400 Very toxic to aquatic life.
- H413 May cause long lasting harmful effects to aquatic life.

Hazard class and hazard category	Code	Description
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), 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
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1, 1A, 1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1, 1A, 1B
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
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 Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
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
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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. 1A, H314	Calculation method
Skin Sens. 1A, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

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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.
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