

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name: MC001841 HARDENER

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

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Premier Farnell

150 Armley Road

Leeds

LS12 2QQ

Tel: +44 (0) 870 129 8608

Email: information@premierfarnell.com**1.4. Emergency telephone number**

Emergency tel: +44 (0) 870 202530

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP: Skin Corr. 1B: H314; Skin Sens. 1A: H317; Repr. 2: H361f; STOT SE 2: H371; Aquatic Chronic 2: H411; -: EUH208

Most important adverse effects: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs. Toxic to aquatic life with long lasting effects. Contains DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE; N-(BETA-AMINOETHYL)PIPERAZINE; FATTY ACIDS, C18- UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS, TETRAETHYLENAPENTAMINE AND TRIETHYLENETETRAMINE; BISPHENOL A. May produce an allergic reaction.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H361f: Suspected of damaging fertility.

H371: May cause damage to organs.

H411: Toxic to aquatic life with long lasting effects.

EUH208: Contains DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS &

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TRIETHYLENETETRAMINE; N-(BETA-AMINOETHYL)PIPERAZINE; FATTY ACIDS, C18- UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS, TETRAETHYLENEPENTAMINE AND TRIETHYLENETETRAMINE; BISPHENOL A. May produce an allergic reaction.

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental



Signal words: Danger

Precautionary statements: P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
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 .
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
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500-191-5	68082-29-1	-	Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Chronic 2: H411	10-30%
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FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH TEPA

268-945-3	68155-17-9	-	Eye Irrit. 2: H319	10-30%
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N-(BETA-AMINOETHYL)PIPERAZINE - REACH registered number(s): 01-2119471486-30-XXXX

205-411-0	140-31-8	-	Skin Corr. 1B: H314; Acute Tox. 3: H311; Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Chronic 3: H412	10-30%
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FATTY ACIDS, C18- UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS,
TETRAETHYLENEPENTAMINE AND TRIETHYLENETETRAMINE

500-187-3	68071-65-8	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317	10-30%
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BISPHENOL A - REACH registered number(s): 01-2119457856-23-XXXX

201-245-8	80-05-7	-	Eye Dam. 1: H318; STOT SE 3: H335; Skin Sens. 1: H317; Repr. 2: H361f; Aquatic Chronic 2: H411	1-10%
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AMORPHOUS SILICA - REACH registered number(s): 01-2119379499-16-XXXX

231-545-4	7631-86-9	Substance with a Community workplace exposure limit.	-	1-10%
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RESORCINOL

203-585-3	108-46-3	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1B: H317; STOT SE 1: H370; STOT SE 2: H371; Aquatic Acute 1: H400	1-10%
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3,6,9- TRIAZAUNDECAMETHYLENE DIAMINE; TETRAETHYLENEPENTAMINE - REACH registered number(s): 01- 2119487290

292-587-7	90640-66-7	-	Acute Tox. 4: H302+H312; Skin Corr. 1B: H314; Resp. Sens. 1A: H334; Skin Sens. 1A: H317	<1%
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AMINES, POLYETHYLENAPOLY-, TRIETHYLENETETRAMINE FRACTION

292-588-2	90640-67-8	-	Skin Corr. 1B: H314; Acute Tox. 4: H302+H312; Skin Sens. 1: H317; Aquatic Chronic 3: H412; Eye Dam. 1: H318	<1%
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DIETHYLENETRIAMINE - REACH registered number(s): 01-2119473793-27-XXXX

203-865-4	111-40-0	-	Skin Corr. 1B: H314; Acute Tox. 4: H302+H312; Acute Tox. 2: H330; Skin Sens. 1: H317; STOT SE 3: H335	<1%
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TRIETHYLENETETRAMINE - REACH registered number(s): 01-2119487919-13-XXXX

203-950-6	112-24-3	-	Skin Corr. 1B: H314; Acute Tox. 4: H302+H312; Skin Sens. 1: H317; Aquatic Chronic 3: H412	<1%
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2-(2-AMINOETHYLAMINO)ETHANOL

203-867-5	111-41-1	-	Skin Corr. 1B: H314; Skin Sens. 1: H317; Repr. 1B: H360Df; Lact.: H362	<1%
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Contains: Contains a candidate listed on the EU REACH Substances of Very High Concern (SVHC).

Section 4: First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Immediately remove contact lenses if present. Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. Wash out mouth with water. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. Move to fresh air in case of accidental inhalation of vapours. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible.

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

- Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- Eye contact:** Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

- Immediate / special treatment:** Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

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5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

Section 8: Exposure controls/personal protection

8.1. Control parameters

[cont...]

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Hazardous ingredients:

BISPHENOL A

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 mg/m ³	-	-	-

AMORPHOUS SILICA

UK	6 mg/m ³	-	2.4 mg/m ³	-
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RESORCINOL

UK	10 ppm	20 ppm	46 mg/m ³	92 mg/m ³
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DIETHYLENETRIAMINE

UK	4.3 mg/m ³	-	-	-
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DNEL/PNEC Values

Hazardous ingredients:

DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	3.9 mg/m ³	Workers	Systemic
DNEL	Dermal	1.1 mg/kg	Workers	Systemic
PNEC	Fresh water	4.34 ug/L	-	-
PNEC	Marine water	434 ng/L	-	-
PNEC	Microorganisms in sewage treatment	3.84 mg/L	-	-
PNEC	Fresh water sediments	434 mg/kg	-	-
PNEC	Marine sediments	43.4 mg/kg	-	-
PNEC	Soil (agricultural)	86.78 mg/kg	-	-

N-(BETA-AMINOETHYL)PIPERAZINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	3.6 mg/m ³	Workers	Systemic
DNEL	Inhalation	21.4 mg/m ³	Workers	Systemic
DNEL	Dermal (repeated dose)	3.3 mg/kg	Workers	Systemic
DNEL	Dermal	20 mg/kg	Workers	Systemic
DNEL	Dermal	6 ug/cm ²	Workers	Local
PNEC	Fresh water	58 ug/L	-	-
PNEC	Marine water	6 ug/L	-	-

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PNEC	Microorganisms in sewage treatment	250 mg/L	-	-
PNEC	Fresh water sediments	215 mg/kg	-	-
PNEC	Marine sediments	21.5 mg/kg	-	-
PNEC	Soil (agricultural)	42.9 mg/kg	-	-

BISPHENOL A

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	10 mg/m ³	Workers	Systemic
DNEL	Dermal	1.4 mg/kg	Workers	Systemic
PNEC	Fresh water	18 ug/L	-	-
PNEC	Marine water	16 ug/L	-	-
PNEC	Microorganisms in sewage treatment	320 mg/L	-	-
PNEC	Fresh water sediments	2.2 mg/kg	-	-
PNEC	Marine sediments	440 ug/kg	-	-
PNEC	Microorganisms in sewage treatment	3.7 mg/kg	-	-
PNEC	Food chain	13.8 mg/kg	-	-

RESORCINOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	5.6 mg/m ³	Workers	Systemic
DNEL	Dermal	40 mg/kg	Workers	Systemic
PNEC	Fresh water	17.2 ug/L	-	-
PNEC	Marine water	1.72 ug/L	-	-
PNEC	Microorganisms in sewage treatment	790 ug/L	-	-
PNEC	Fresh water sediments	109 ug/kg	-	-
PNEC	Marine sediments	10.9 ug/kg	-	-
PNEC	Soil (agricultural)	10 mg/kg	-	-

DIETHYLENETRIAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	15.4 mg/m ³	Workers	Systemic
DNEL	Inhalation	92.1 mg/m ³	Workers	Systemic
DNEL	Inhalation	0.87 mg/m ³	Workers	Local
DNEL	Inhalation	2.6 mg/m ³	Workers	Local
DNEL	Dermal	11.4 mg/kg	Workers	Systemic
DNEL	Dermal	1.1 mg/cm ²	Workers	Local

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PNEC	Fresh water	560 ug/L	-	-
PNEC	Marine water	56 ug/L	-	-
PNEC	Microorganisms in sewage treatment	6 mg/L	-	-
PNEC	Fresh water sediments	1072 mg/kg	-	-
PNEC	Marine sediments	107.2 mg/kg	-	-
PNEC	Soil (agricultural)	7.97 mg/kg	-	-

TRIETHYLENETETRAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1 mg/m3	Workers	Systemic
DNEL	Inhalation	5380 mg/m3	Workers	Systemic
DNEL	Dermal	28 ug/kg	Workers	Local
DNEL	Dermal	57 ug/kg	Workers	Systemic
PNEC	Fresh water	190 ug/L	-	-
PNEC	Marine water	38 ug/L	-	-
PNEC	Microorganisms in sewage treatment	4.25 mg/L	-	-
PNEC	Fresh water sediments	95.9 mg/kg	-	-
PNEC	Marine sediments	19.2 mg/kg	-	-
PNEC	Soil (agricultural)	19.1 mg/kg	-	-

2-(2-AMINOETHYLAMINO)ETHANOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	3.53 mg/m3	Workers	Systemic
DNEL	Dermal	8.33 mg/kg	Workers	Systemic
PNEC	Fresh water	22 ug/L	-	-
PNEC	Marine water	2.2 ug/L	-	-
PNEC	Microorganisms in sewage treatment	82.2 mg/L	-	-
PNEC	Fresh water sediments	1.3 mg/kg	-	-
PNEC	Marine sediments	130 ug/kg	-	-
PNEC	Soil (agricultural)	246 ug/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Suitable respiratory protection should be worn when there is inadequate ventilation.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

[cont...]

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless to Yellow

Odour: Characteristic odour

Solubility in water: Soluble

Flash point°C: 151

Relative density: 0.98

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

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N-(BETA-AMINOETHYL)PIPERAZINE

DERMAL	RBT	LD50	886	mg/kg
ORAL	RAT	LD50	1000	mg/kg

FATTY ACIDS, C18- UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS, TETRAETHYLENEPENTAMINE AND TRIETHYLENETETRAMINE

ORAL	RAT	LD50	>2000	mg/kg
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BISPHENOL A

DERMAL	RBT	LD50	>3000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

AMORPHOUS SILICA

DERMAL	RBT	LD50	>5000	mg/kg
DUST/MIST	RAT	4H LC50	>2.08	mg/l
ORAL	RAT	LD50	>3300	mg/kg

RESORCINOL

DERMAL	RBT	LD50	2830	mg/kg
DUST/MIST	RAT	1H LC50	7.8	mg/l
ORAL	RAT	LD50	510	mg/kg

3,6,9- TRIAZAUNDECAMETHYLENE DIAMINE; TETRAETHYLENEPENTAMINE

DERMAL	RBT	LD50	>1000	mg/kg
ORAL	RAT	LD50	3250	mg/kg

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION

DERMAL	RBT	LD50	1465.4	mg/kg
ORAL	RAT	LD50	1716.2	mg/kg

DIETHYLENETRIAMINE

DERMAL	RBT	LD50	1045	mg/kg
DUST/MIST	RAT	4H LC50	0.07	mg/l
ORAL	RAT	LD50	1553	mg/kg

TRIETHYLENETETRAMINE

DERMAL	RBT	LD50	1465	mg/kg
ORAL	RAT	LD50	>300	mg/kg

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2-(2-AMINOETHYLAMINO)ETHANOL

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	2150	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	-	Hazardous: calculated
Reproductive toxicity	--	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE

Daphnia magna	48H EC50	7.07	mg/l
Scenedesmus Subspicatus	72H ErC50	4.34	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	7.07	mg/l

N-(BETA-AMINOETHYL)PIPERAZINE

Daphnia magna	48H EC50	58	mg/l
FISH	96H LC50	2190	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	>1000	mg/l

BISPHENOL A

Daphnia magna	48H EC50	10.2	mg/l
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FISH	96H LC50	9.4	mg/l
MARINE ALGAE (<i>Skeletonema costatum</i>)	72H ErC50	1.1	mg/l

RESORCINOL

Daphnia magna	48H EC50	27	mg/l
FISH	96H LC50	26.8	mg/l
GREEN ALGA (<i>Selenastrum capricornutum</i>)	72H ErC50	>97	mg/l

DIETHYLENETRIAMINE

Daphnia magna	48H EC50	16	mg/l
FISH	96H LC50	430	µg/l
GREEN ALGA (<i>Selenastrum capricornutum</i>)	72H ErC50	1164	mg/l

TRIETHYLENETETRAMINE

ALGAE	72H ErC50	>10	mg/l
Daphnia magna	48H EC50	33.9	mg/l
FISH	96H LC50	>100	mg/l

2-(2-AMINOETHYLAMINO)ETHANOL

Daphnia magna	48H EC50	22	mg/l
Scenedesmus Subspicatus	72H ErC50	356	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 04 09

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Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2735

14.2. UN proper shipping name

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
(FATTY ACIDS, VEGETABLE-OIL, REACTION PRODUCTS WITH TETRAETHYLENEMPENTAMINE; 2-PIPERAZIN-1-YLETHYLAMINE; DIETHYLENETRIAMINE;)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH208: Contains DIMERS OF UNSATURATED C18-TALL OIL FATTY ACIDS & TRIETHYLENETETRAMINE; N-(BETA-AMINOETHYL)PIPERAZINE; FATTY ACIDS, C18- UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS,

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TETRAETHYLENEPENTAMINE AND TRIETHYLENETETRAMINE; BISPHENOL A. May produce an allergic reaction.

H302: Harmful if swallowed.

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

H311: Toxic 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.

H330: Fatal if inhaled.

H335: May cause respiratory irritation.

H360Df: May damage the unborn child. Suspected of damaging fertility.

H361f: Suspected of damaging fertility.

H362: May cause harm to breast-fed children.

H370: Causes damage to organs ([blood] [CNS]) ([oral]).

H371: May cause damage to organs ([respiratory system]) ([oral]).

H371: May cause damage to organs.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name: MC001841 RESIN

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

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Premier Farnell

150 Armley Road

Leeds

LS12 2QQ

Tel: +44 (0) 870 129 8608

Email: information@premierfarnell.com**1.4. Emergency telephone number**

Emergency tel: +44 (0) 870 202530

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP: Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411; -: EUH205

Most important adverse effects: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects. Contains epoxy constituents. May produce an allergic reaction.

2.2. Label elements

Label elements:

Hazard statements: * H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

EUH205: Contains epoxy constituents. May produce an allergic reaction.

Hazard pictograms: * GHS07: Exclamation mark

GHS09: Environmental



Signal words: * Warning

Precautionary statements: P261: Avoid breathing vapours.

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P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

ORTHO CRESOL NOVALAC EPOXY RESIN

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	94362-50-2	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411	30-50%

CALCIUM CARBONATE

207-439-9	471-34-1	Substance with a Community workplace exposure limit.	-	30-50%
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1,4-BUTANEDIOL DIGLYCIDYL ETHER - REACH registered number(s): 01-2119494060-45-XXXX

219-371-7	2425-79-8	-	Acute Tox. 4: H302+H312+H332; Skin Sens. 1: H317; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315	10-30%
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AMORPHOUS SILICA - REACH registered number(s): 01-2119379499-16-XXXX

231-545-4	7631-86-9	Substance with a Community workplace exposure limit.	-	1-10%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: * Immediately remove contact lenses if present. Bathe the eye with running water for 15 minutes. Get medical attention if any discomfort continues.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

[cont...]

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

Skin contact: There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

[cont...]

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7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

CALCIUM CARBONATE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 mg/m ³	-	4 mg/m ³	-

AMORPHOUS SILICA

UK	6 mg/m ³	-	2.4 mg/m ³	-
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DNEL/PNEC Values

Hazardous ingredients:

CALCIUM CARBONATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	10 mg/m ³	Workers	Systemic
PNEC	Microorganisms in sewage treatment	100 mg/L	-	-

1,4-BUTANEDIOL DIGLYCIDYL ETHER

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	4.7 mg/m ³	Workers	Systemic
DNEL	Dermal	6.66 mg/kg	Workers	Systemic
PNEC	Fresh water	24 ug/L	-	-
PNEC	Marine water	2.4 ug/L	-	-
PNEC	Microorganisms in sewage treatment	100 mg/L	-	-

[cont...]

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PNEC	Fresh water sediments	84 ug/kg	-	-
PNEC	Marine sediments	8.4 ug/kg	-	-
PNEC	Soil (agricultural)	2.7 ug/kg	-	-
PNEC	Food chain	28 ug/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Various

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Amines. Alcohols.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

[cont...]

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Hazardous ingredients:

CALCIUM CARBONATE

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>3	mg/l
ORAL	RAT	LD50	>2000	mg/kg

1,4-BUTANEDIOL DIGLYCIDYL ETHER

DERMAL	RAT	LD50	>2150	mg/kg
ORAL	RAT	LD50	1118	mg/kg
VAPOURS	RAT	4H LC50	>11.3	mg/l

AMORPHOUS SILICA

DERMAL	RBT	LD50	>5000	mg/kg
DUST/MIST	RAT	4H LC50	>2.08	mg/l
ORAL	RAT	LD50	>3300	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

[cont...]

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CALCIUM CARBONATE

Daphnia magna	48H EC50	>100	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l
Scenedesmus Subspicatus	72H ErC50	>14	mg/l

1,4-BUTANEDIOL DIGLYCIDYL ETHER

Scenedesmus Subspicatus	72H ErC50	110	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	24	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 04 09

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(ORTHO CRESOL NOVALAC EPOXY RESIN;1,4-BUTANEDIOL DIGLYCIDYL ETHER;)

[cont...]

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14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: Marine pollutant(s) - ORTHO CRESOL NOVALAC EPOXY RESIN ;

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH205: Contains epoxy constituents. May produce an allergic reaction.

H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.