

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

1.1. Product identifier

Product form : Mixture
Product name : Altro Proof Standard / Tect MT Hardener
Product code : DPMUMT6H
Product group : End product

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

Relevant identified uses

Main use category : Professional use, Industrial use
Use of the substance/mixture : Amine Epoxy Hardener - Industrial flooring & wall coatings.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Altro Resin Systems
Unit 3, Station Road Industrial Estate
Station Road
GB DT2 0AE Maiden Newton Dorchester
T 01300 320620
sds@altro.com, www.altro.com

Distributor

Altro Deutschland GmbH & Co. KG
Ebertallee 209
DE 06846 Dessau-Rosslau
T +49 (0) 340 6500-0
www.altro.com

1.4. Emergency telephone number

Emergency number : 01462 480480
Monday - Friday 09:00 - 17:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1, Sub-Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

GHS08

GHS09

Signal word (CLP) :

Danger

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Contains	: Fatty acids, tall oil, reaction products with bisphenol A, epichlorohydrin glycidyl tolyl ether and triethylenetetramine; 3-AMINOPROPYLDIMETHYLAMINE; 3-AMINOPROPYLTRIETHOXYSILANE; 1,3-Benzenedimethanamine; P-tert-butylphenol; 2,2,4-Trimethylhexane-1,6-diamine; 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL; Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols; Paraformaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenbis(methylamine) and trimethylhexane-1,6
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H361 - Suspected of damaging fertility or the unborn child. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P280 - Wear eye protection, protective clothing, protective gloves. P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER, a doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P391 - Collect spillage.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	P-tert-butylphenol (98-54-4)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	P-tert-butylphenol (98-54-4)

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Component	
Substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	P-tert-butylphenol (98-54-4)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fatty acids, tall oil, reaction products with bisphenol A, epichlorohydrin glycidyl tolyl ether and triethylenetetramine	CAS-No.: 186321-96-0 EC-No.: 606-078-8	$\geq 30 - < 50$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZYL ALCOHOL	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38	≥ 10 – < 30	Acute Tox. 4 (Oral), H302 (ATE=1580 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Eye Irrit. 2, H319 Aquatic Chronic 3, H412
1,3-Benzenedimethanamine	CAS-No.: 1477-55-0 EC-No.: 216-032-5 REACH-no: 01-2119480150-50	≥ 5 – < 15	Acute Tox. 4 (Oral), H302 (ATE=930 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=2000 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=2.4 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
P-tert-butylphenol substance listed on REACH Candidate List substance identified as having endocrine disrupting properties	CAS-No.: 98-54-4 EC-No.: 202-679-0 EC Index-No.: 604-090-00-8	≥ 5 – < 15	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)
Paraformaldehyde, polimeric reaction products with 4-tert-butylphenol, m-phenylenbis (methylamine) and trimethylhexane-1,6	CAS-No.: 2408029-04-7	≥ 5 – < 15	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2,2,4-Trimethylhexane-1-6-diamine	CAS-No.: 25513-64-8 EC-No.: 247-063-2 REACH-no: 01-2119560598-25	≥ 3 – < 10	Acute Tox. 4 (Oral), H302 (ATE=910 mg/kg bodyweight) Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	EC-No.: 701-443-9 REACH-no: 0102119980970-27-0000	≥ 0.1 – < 5	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
3-AMINOPROPYLDIMETHYLAMINE	CAS-No.: 109-55-7 EC-No.: 203-680-9 EC Index-No.: 612-061-00-6 REACH-no: 2119486842-27-0000	≥ 1 – < 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=1600 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=400 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	CAS-No.: 90-72-2 EC-No.: 202-013-9 EC Index-No.: 603-069-00-0	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318
3-AMINOPROPYL TRIETHOXYSILANE	CAS-No.: 919-30-2 EC-No.: 213-048-4 EC Index-No.: 612-108-00-0 REACH-no: 01-2119480479-24	< 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Take off all contaminated clothing and wash its before reuse.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
Symptoms/effects after skin contact	: irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. May cause redness and soreness of the mouth and throat. Corrosive burns may appear around the lips.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO ₂). Dry powder. Water fog. Alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: In case of fire and/or explosion do not breathe fumes. On burning: release of toxic gases/vapours. Carbon oxides (CO, CO ₂).
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5.3. Advice for firefighters

Firefighting instructions	: Control run-off water by containing and keeping it out of sewers and watercourses.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition.

6.2. Environmental precautions

Avoid release to the environment. Contain the spilled material by bunding.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Dispose of materials or solid residues at an authorized site.

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6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep only in original container. Store in a dry place. Store in a closed container.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL and PNEC

Fatty acids, tall oil, reaction products with bisphenol A, epichlorohydrin glycidyl tolyl ether and triethylenetetramine (186321-96-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	7.05 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.74 mg/m ³
Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.186 µg/l
PNEC aqua (marine water)	0.019 µg/l
PNEC aqua (intermittent, freshwater)	1.86 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5 µg/kg dw
PNEC sediment (marine water)	0.5 µg/kg dw
PNEC (Soil)	
PNEC soil	11.1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.58 mg/l

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BENZYL ALCOHOL (100-51-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	40 mg/kg bw/day
Acute - systemic effects, inhalation	110 mg/m ³
Long-term - local effects, dermal	8 mg/kg bw/day
Long-term - systemic effects, inhalation	22 mg/kg bw/day
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	20 mg/kg bw/day
Acute - systemic effects, inhalation	27
Acute - systemic effects, oral	20 mg/m ³
Long-term - systemic effects, oral	4 mg/kg bw/day
Long-term - systemic effects, inhalation	5.4 mg/m ³
Long-term - systemic effects, dermal	4 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	≈ 1 mg/l
PNEC aqua (marine water)	≈ 0.1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5.27 mg/kg dwt
PNEC sediment (marine water)	0.527 mg/kg dwt
PNEC (Soil)	
PNEC soil	≈ 0.456 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	39 mg/l
3-AMINOPROPYLDIMETHYLAMINE (109-55-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	1.2 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0728 mg/l
PNEC aqua (marine water)	0.00728 mg/l
PNEC aqua (intermittent, freshwater)	0.34 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.735 mg/kg dwt
PNEC sediment (marine water)	0.0735 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.104 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

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3-AMINOPROPYLTRIETHOXYSILANE (919-30-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.5 mg/m ³
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
1,3-Benzenedimethanamine (1477-55-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.2 mg/m ³
Long-term - local effects, inhalation	0.2 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.094 mg/l
PNEC aqua (marine water)	0.0094 mg/l
PNEC aqua (intermittent, freshwater)	0.152 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	12.4 mg/kg dwt
PNEC sediment (marine water)	1.24 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.44 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
P-tert-butylphenol (98-54-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.071 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.5 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.026 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.09 mg/m ³
Long-term - systemic effects, dermal	0.026 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.01 mg/l
PNEC aqua (marine water)	0.001 mg/l
PNEC aqua (intermittent, freshwater)	0.048 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.27 mg/kg dwt
PNEC sediment (marine water)	0.027 mg/kg dwt

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P-tert-butylphenol (98-54-4)	
PNEC (Soil)	
PNEC soil	0.25 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	46.67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1.5 mg/l
2,2,4-Trimethylhexane-1-6-diamine (25513-64-8)	
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.05 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.102 mg/l
PNEC aqua (marine water)	0.0102 mg/l
PNEC aqua (intermittent, freshwater)	0.315 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.622 mg/kg dwt
PNEC sediment (marine water)	0.062 mg/kg dwt
PNEC (Soil)	
PNEC soil	10 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	72 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Wear eye protection

Skin protection

Skin and body protection:

Avoid contact with skin

Hand protection:

Standard EN 374 - Protective gloves against chemicals.

Other skin protection

Materials for protective clothing:

Keep work clothing separately

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Respiratory protection

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: brown.
Appearance	: Liquid.
Odour	: Amine-like.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Avoid heat, flames or sparks.

10.5. Incompatible materials

Reactive metals (eg. sodium, calcium, zinc ect). Materials reactive with hydroxyl compounds. Organic acids (e.g. acetic acid, citric acid ect.). Mineral acids, sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agent.

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10.6. Hazardous decomposition products

Nitric acid (HNO₃). Ammonia, Nitrogen oxides (NO_x) Nitrogen oxides can react with water vapour to form corrosive nitric acid, Carbon monoxide (CO), Carbon dioxide (CO₂), Aldehydes and flammable hydrocarbon fragments.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

BENZYL ALCOHOL (100-51-6)

LD50 oral rat	1620 mg/kg
LD50 oral	1580 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1410 - 1770
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 4.178 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

3-AMINOPROPYLDIMETHYLAMINE (109-55-7)

LD50 oral rat	1600 mg/kg
LD50 dermal rat	400 – 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	2138.7 mg/kg
LC50 Inhalation - Rat	> 4.31 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

3-AMINOPROPYLTRIETHOXYSILANE (919-30-2)

LD50 oral rat	+ 2.83 ml/kg male
LC50 Inhalation - Rat [ppm]	> 5 ppm/4h male

1,3-Benzenedimethanamine (1477-55-0)

LD50 oral rat	930 mg/kg
LD50 dermal rat	> 3100 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	2000 mg/kg
LC50 Inhalation - Rat	3.89 mg/l
LC50 Inhalation - Rat [ppm]	1700 ppm/1h
LC50 Inhalation - Rat (Dust/Mist)	2.4 mg/l/4h

P-tert-butylphenol (98-54-4)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 16000 mg/kg
LC50 Inhalation - Rat	> 5.6 mg/l/4h

2,2,4-Trimethylhexane-1-6-diamine (25513-64-8)

LD50 oral rat	910 mg/kg bodyweight Animal: rat, Animal sex: male
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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)	
LD50 oral rat	2169 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1916 - 2455
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	: Causes severe skin burns.
Fatty acids, tall oil, reaction products with bisphenol A, epichlorohydrin glycidyl tolyl ether and triethylenetetramine (186321-96-0)	
pH	10.4 Temp.: 20 °C
Serious eye damage/irritation	: Causes serious eye damage.
Fatty acids, tall oil, reaction products with bisphenol A, epichlorohydrin glycidyl tolyl ether and triethylenetetramine (186321-96-0)	
pH	10.4 Temp.: 20 °C
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
3-AMINOPROPYLDIMETHYLAMINE (109-55-7)	
NOAEL (chronic, oral, animal/male, 2 years)	8 mg/kg bodyweight Animal: mouse, Animal sex: male
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
3-AMINOPROPYLDIMETHYLAMINE (109-55-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
BENZYL ALCOHOL (100-51-6)	
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:
3-AMINOPROPYLDIMETHYLAMINE (109-55-7)	
LOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
LOAEC (inhalation, rat, vapour, 90 days)	0.323 mg/l air Animal: rat
NOAEC (inhalation, rat, vapour, 90 days)	0.144 mg/l air Animal: rat
3-AMINOPROPYLTRIETHOXSILANE (919-30-2)	
LOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
LOAEL (dermal, rat/rabbit, 90 days)	17 mg/kg bodyweight Animal: rabbit
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
P-tert-butylphenol (98-54-4)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: other:
2,2,4-Trimethylhexane-1-6-diamine (25513-64-8)	
LOAEL (oral, rat, 90 days)	60 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	10 mg/kg bodyweight Animal: rat

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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

NOAEL (oral, rat, 90 days)	15 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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Aspiration hazard : Not classified

BENZYL ALCOHOL (100-51-6)

Viscosity, kinematic	4.851 mm ² /s
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3-AMINOPROPYLTRIETHOXYSILANE (919-30-2)

Viscosity, kinematic	1.8 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
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11.2. Information on other hazards

Endocrine disrupting properties

Component

P-tert-butylphenol (98-54-4)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

Fatty acids, tall oil, reaction products with bisphenol A, epichlorohydrin glycidyl tolyl ether and triethylenetetramine (186321-96-0)

LC50 - Fish [1]	1806 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.705 mg/l Test organisms (species): Daphnia magna

BENZYL ALCOHOL (100-51-6)

LC50 - Fish [1]	460 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	10 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	230 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	770 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	500 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	76.828 mg/l Test organisms (species): other:
NOEC chronic fish	48.897 mg/l Test organisms (species): other: Duration: '30 d'

3-AMINOPROPYLDIMETHYLAMINE (109-55-7)

LC50 - Fish [1]	122 mg/l Test organisms (species): Leuciscus idus melanotus
EC50 - Crustacea [1]	59.46 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	34 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	30 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

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3-AMINOPROPYLDIMETHYLAMINE (109-55-7)	
LOEC (chronic)	6.06 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
NOEC (chronic)	3.64 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
3-AMINOPROPYLTRIETHOXYSILANE (919-30-2)	
LC50 - Fish [1]	> 934 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	331 mg/l Test organisms (species): Daphnia magna
NOEC chronic algae	1.3 mg/l Desmodesmus subspicatus
1,3-Benzenedimethanamine (1477-55-0)	
LC50 - Fish [1]	87.6 mg/l Test organisms (species): Oryzias latipes
LC50 - Fish [2]	10 – 100 mg/l
EC50 - Crustacea [1]	15.2 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	20.3 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	33.3 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	15 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	4.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	4.7 mg/l Test species: Daphnia magna
P-tert-butylphenol (98-54-4)	
LC50 - Fish [1]	> 1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	1.6 mg/l Test species:- Golden Orfe
EC50 - Crustacea [1]	≈ 4.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	≈ 14 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	≈ 2.4 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	2.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.73 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.01 mg/l
NOEC chronic crustacea	0.73 mg/l
2,2,4-Trimethylhexane-1-6-diamine (25513-64-8)	
EC50 72h - Algae [1]	43.5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	1.02 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1.02 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 10.9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '30 d'
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Cyprinus carpio
LC50 - Fish [2]	718 mg/l

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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	46.7 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	25.5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	84 mg/l Test organisms (species): Desmodesmus subspicatus
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	
LC50 - Fish [1]	14.8 mg/l Fish -(LL50)
EC50 - Crustacea [1]	4.6 mg/l Test species:- Daphnia magna (Water flea), (EC50)
EC50 72h - Algae [1]	3.14 mg/l Test species:- Scenedesmus sp. (EL50)
12.2. Persistence and degradability	
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Persistence and degradability	Not rapidly degradable
Fatty acids, tall oil, reaction products with bisphenol A, epichlorohydrin glycidyl tolyl ether and triethylenetetramine (186321-96-0)	
Persistence and degradability	Not rapidly degradable
BENZYL ALCOHOL (100-51-6)	
Persistence and degradability	Readily biodegradable.
3-AMINOPROPYLDIMETHYLAMINE (109-55-7)	
Persistence and degradability	Not rapidly degradable
3-AMINOPROPYLTRIETHOXYSILANE (919-30-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	67 % 28d (OECD 301A method)
1,3-Benzenedimethanamine (1477-55-0)	
Persistence and degradability	Not rapidly degradable
P-tert-butylphenol (98-54-4)	
Persistence and degradability	Not rapidly degradable
2,2,4-Trimethylhexane-1,6-diamine (25513-64-8)	
Persistence and degradability	Not rapidly degradable
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)	
Persistence and degradability	Not rapidly degradable
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	
Persistence and degradability	Not rapidly degradable
Paraformaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenbis (methylamine) and trimethylhexane-1,6 (2408029-04-7)	
Persistence and degradability	Not rapidly degradable

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12.3. Bioaccumulative potential

3-AMINOPROPYLTRIETHOXYSILANE (919-30-2)

Bioconcentration factor (BCF REACH)	3.4 Cyprinus carpio
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	P-tert-butylphenol (98-54-4)
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Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	P-tert-butylphenol (98-54-4)
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12.6. Endocrine disrupting properties

Component

P-tert-butylphenol (98-54-4)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)
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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Must follow special treatment according to local regulation.
Ecological waste information	: Avoid release to the environment.
HP Code	: HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. HP8 - "Corrosive:" waste which on application can cause skin corrosion. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / ADN / RID

ADR	IMDG	ADN	RID
14.1. UN number or ID number			
UN 3267	UN 3267	UN 3267	UN 3267

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ADR	IMDG	ADN	RID
14.2. UN proper shipping name			
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.)
Transport document description			
UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. CONTAINS 3-AMINOPROPYLDIMETHYLAMINE ; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL; 1,3-Benzenedimethanamine; Trimethylhexane-1-6-diamine.), 8, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)			
8	8	8	8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-B	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available			

14.6. Special precautions for user

Overland transport

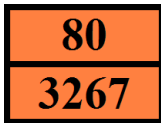
Classification code (ADR)	: C7
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN

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Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2
Segregation (IMDG) : SGG18, SG35
Properties and observations (IMDG) : Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

Inland waterway transport

Classification code (ADN) : C7
Special provisions (ADN) : 274
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C7
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T7
Portable tank and bulk container special provisions (RID) : TP1, TP28
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: 4-tert-butylphenol (EC 202-679-0, CAS 98-54-4)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.

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Full text of H- and EUH-statements:	
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.