

**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 04.03.2020

V- 2.0

Revision: 08.11.2019

**SECTION 1: Identification of the substance/mixture and of the company/  
undertaking****1.1 Product identifier****Trade name: RADEX D10 degreaser (Fast) attaukotājs****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: professional use.

**Application of the substance / the mixture** Degreasing agent**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

RADEX-Europe Ltd.

Uriekstes iela 3, Riga

LV-1005, Latvia

Tel: +371 67387778

Fax: +371 67387789

info@radex-europe.lv

**Further information obtainable from:** info@radex-europe.lv**1.4 Emergency telephone number:** Tel: +371 67387778 (9:00 – 18:00)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02

Flam. Liq. 2            H225 Highly flammable liquid and vapour.



GHS08

Repr. 2                H361 Suspected of damaging fertility or the unborn child.

Asp. Tox. 1            H304 May be fatal if swallowed and enters airways.



GHS09

Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2            H315 Causes skin irritation.

STOT SE 3             H336 May cause drowsiness or dizziness.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

**Signal word** Danger**Hazard-determining components of labelling:**

Naphtha (petroleum), hydrotreated light

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.\* **SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.

<b>Dangerous components:</b>		
CAS: 64742-49-0 EINECS: 265-151-9 Reg.nr.: 01-2119475133-43	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225; Repr. 2, H361; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
List no.: 927-241-2 Reg.nr.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	25-50%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1-5%

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List no.: 905-562-9 Reg.nr.: 01-2119555267-33	Reaction mass of ethylbenzene and m-xylene and p-xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1-5%
List no.: 918-668-5 Reg.nr.: 01-2119455851-35	hydrocarbons, C9, aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	1-2.5%

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

BENZYL BENZOATE, BENZYL ALCOHOL

&lt;5%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Take affected persons out of danger area and lay down.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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

No further relevant information available.

**\* SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

**Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with the eyes and skin.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents.

Dispose of the material collected according to regulations.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

\* **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Open and handle receptacle with care.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Do not allow to enter sewers/ surface or ground water.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Fumes can combine with air to form an explosive mixture.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

**7.3 Specific end use(s)** No further relevant information available.

\* **SECTION 8: Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

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**8.1 Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>141-78-6 ethyl acetate</b>	
WEL (Great Britain)	Short-term value: 1468 mg/m <sup>3</sup> , 400 ppm Long-term value: 734 mg/m <sup>3</sup> , 200 ppm
IOELV (EU)	Short-term value: 1468 mg/m <sup>3</sup> , 400 ppm Long-term value: 734 mg/m <sup>3</sup> , 200 ppm
<b>Reaction mass of ethylbenzene and m-xylene and p-xylene</b>	
WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**Regulatory information**

WEL (Great Britain): EH40/2018

IOELV (EU): (EU) 2017/164

<b>DNELs</b>	
<b>141-78-6 ethyl acetate</b>	
Dermal	DNEL 63 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 1,468 mg/m <sup>3</sup> (acute - systemic effects, workers) 1,468 mg/m <sup>3</sup> (acute - local effects, workers) 734 mg/m <sup>3</sup> (long-term - systemic effects, workers) 734 mg/m <sup>3</sup> (long-term - local effects, workers)
<b>Reaction mass of ethylbenzene and m-xylene and p-xylene</b>	
Dermal	DNEL 212 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 442 mg/m <sup>3</sup> (acute - systemic effects, workers) 442 mg/m <sup>3</sup> (acute - local effects, workers) 221 mg/m <sup>3</sup> (long-term - systemic effects, workers) 221 mg/m <sup>3</sup> (long-term - local effects, workers)
<b>hydrocarbons, C9, aromatics</b>	
Dermal	DNEL 25 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 150 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>PNECs</b>	
<b>141-78-6 ethyl acetate</b>	
PNEC	0.24 mg/l (freshwater environment) 0.024 mg/l (marine environment) 1.65 mg/l (intermittent releases) 650 mg/l (sewage treatment plants)
PNEC	1.15 mg/kg (freshwater sediment environment) 0.115 mg/kg (marine sediment environment)

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<b>Reaction mass of ethylbenzene and m-xylene and p-xylene</b>	
PNEC	6.58 mg/l (sewage treatment plants)
PNEC	12.46 mg/kg (freshwater sediment environment) 12.46 mg/kg (marine sediment environment)
PNEC	327 µg/l (freshwater environment) 327 µg/l (marine environment) 327 µg/l (intermittent releases)
<b>Ingredients with biological limit values:</b>	
<b>Reaction mass of ethylbenzene and m-xylene and p-xylene</b>	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

**Regulatory information** BMGV (Great Britain): EH40/2011**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep ignition sources away - Do not smoke.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

**Respiratory protection:**

Filter A2/P2

Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:**

Protective gloves

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374).

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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**Eye protection:**

Tightly sealed goggles

**Body protection:** Protective work clothing**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Product specific
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not applicable.**Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	70 °C

**Flash point:** 18 °C**Flammability (solid, gas):** Not applicable.**Decomposition temperature:** Not determined.**Auto-ignition temperature:** Not determined.**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Explosion limits:**

<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	11.5 Vol %

**Vapour pressure at 20 °C:** 98 hPa

<b>Density:</b>	0.74-0.75 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

**Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

**Partition coefficient: n-octanol/water:** Not determined.**Viscosity:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

**9.2 Other information**

No further relevant information available.

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### SECTION 10: Stability and reactivity

**10.1 Reactivity** No decomposition if used according to specifications.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Fumes can combine with air to form an explosive mixture.

**10.4 Conditions to avoid** Protect from heat and direct sunlight.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

Formation of toxic gases is possible during heating or in case of fire.

### \* SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

**64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,610 mg/l (rat)

**141-78-6 ethyl acetate**

Oral	LD50	6,100 mg/kg (rat)
Dermal	LD50	>20,000 mg/kg (rabbit)
Inhalative	LC50/6 h	58 mg/l (rat)

**Reaction mass of ethylbenzene and m-xylene and p-xylene**

Dermal	LD50	1,100 mg/kg (ATE)
Inhalative	LC50/4 h	11 mg/l (ATE)

**hydrocarbons, C9, aromatics**

Oral	LD50	3,592 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg
Inhalative	LC50/4 h	>6,193 mg/l (rat)

**Primary irritant effect:**

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

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**Aspiration hazard**

May be fatal if swallowed and enters airways.

\* **SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****64742-49-0 Naphtha (petroleum), hydrotreated light**

EC50/48 h	4.5 mg/l (Daphnia magna)
LL50/96 h	8.2 mg/l (Pimephales promelas)

**141-78-6 ethyl acetate**

LC50/96 h	230 mg/l (Pimephales promelas)
EC50/48 h	165 mg/l (Daphnia cucullata)
EC50/72 h	>900 mg/l (Scenedesmus subspicatus)
EC3/16 h	650 mg/l (Pseudomonas putida)

**Reaction mass of ethylbenzene and m-xylene and p-xylene**

LC50/72 h	2.6-8.4 mg/l (fish)
LC50/96h	3,300-4,093 µg/l (Oncorhynchus mykiss)

**hydrocarbons, C9, aromatics**

ErC50/96 h	9.2 mg/l (fish)
EL50/48 h	3.2 mg/l (Daphnia magna)
ErL50/72 h	2.9 mg/l (Pseudokirchnerella subcapitata)
EC50/48 h	6.14 mg/l (Daphnia magna)
EC50/10 min	>99 mg/l (microorganisms)

**12.2 Persistence and degradability****141-78-6 ethyl acetate**

Biodegradation	93.9 % (readily biodegradable) (OECD 301 B, aerobic)
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**Reaction mass of ethylbenzene and m-xylene and p-xylene**

Biodegradation	75 % (readily biodegradable)
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**hydrocarbons, C9, aromatics**

Biodegradation	78 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)
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**12.3 Bioaccumulative potential****141-78-6 ethyl acetate**

BCF	30 (-)
log Pow	0.66

**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Toxic for aquatic organisms

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**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

08 01 11\* | waste paint and varnish containing organic solvents or other hazardous substances

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN-Number****ADR, IMDG, IATA**

UN1263

**14.2 UN proper shipping name****ADR**

1263 PAINT

**IMDG**

PAINT (Naphtha (petroleum), hydrotreated light, hydrocarbons, C9, aromatics), MARINE POLLUTANT

**IATA**

PAINT

**14.3 Transport hazard class(es)****ADR, IMDG****Class**

3

**Label**

3

**IATA****Class**

3

**Label**

3

**14.4 Packing group****ADR, IMDG, IATA**

II

**14.5 Environmental hazards:**Environmentally hazardous substance, liquid  
Product contains environmentally hazardous

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<b>Marine pollutant (IMDG):</b>	substances: allyl heptanoate, Naphtha (petroleum), hydrotreated light Yes
<b>Special marking (ADR):</b>	Symbol (fish and tree) Symbol (fish and tree)
<b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
<b>Hazard identification number (Kemler code):</b>	33
<b>EMS Number:</b>	F-E, S-E
<b>Stowage Category</b>	B
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	D/E
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>UN "Model Regulation":</b>	UN 1263 PAINT, 3, II

\* **SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU**

Named dangerous substances - ANNEX I None of the ingredients is listed.

**Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.\* **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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**Relevant phrases**

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H361 Suspected of damaging fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

<b>Classification according to Regulation (EC) No 1272/2008</b>	
Flammable liquids	Bridging principles
Skin corrosion/irritation Reproductive toxicity Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
Aspiration hazard	Expert judgement

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity. Hazard Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**Sources** European Chemicals Agency, <http://echa.europa.eu/>

**\* Data compared to the previous version altered.**