

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

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V- 5.0 (replaces version 1.0)

Revision: 13.04.2022

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

**1.1 Product identifier**

**Trade name:** CARROSS PROTECTION ANTI-GRAVILLON GRIS

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

Identified use: professional use.

**Application of the substance / the mixture** Anticorrosion additive

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

CARROSS SAS  
6 rue des sources  
69230, Saint-Genis-Laval, France  
Tel +33 (0)1 60 27 20 19  
contact@carross.eu

**Further information obtainable from:** contact@carross.eu

**1.4 Emergency telephone number:**

+33 (0)1 60 27 20 19 (8:30-18:00 du lundi au jeudi, 9:30-17 le vendredi)

**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

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

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

**Hazard pictograms**



GHS02 GHS07 GHS08

**Signal word** Danger

**Hazard-determining components of labelling:**

Reaction mass of ethylbenzene and xylene

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

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

P233 Keep container tightly closed.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

**Additional information:**

Contains fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine. May produce an allergic reaction.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Determination of endocrine-disrupting properties**

The product does not contain a substance included in the list established pursuant to Article 59(1) of Regulation (EC) No 1907/2006 as having endocrine disrupting properties or a substance that would be 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 in a quantity  $\geq 0.1\%$ .

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

<b>Dangerous components:</b>		
List no.: 905-588-0 Reg.nr.: 01-2119488216-32	Reaction mass of ethylbenzene and 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; Aquatic Chronic 3, H412	15-<25%
List no.: 927-510-4 Reg.nr.: 01-2119475515-33	hydrocarbons, C7, n-alkanes, isoalkanes, cyclics ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	2.5-<10%
CAS: 162627-17-0 Reg.nr.: 01-2119970640-38	fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine ⚠ Skin Sens. 1A, H317	<0.1000%

**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:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**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.

Use fire extinguishing methods suitable to surrounding conditions.

**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.

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**

Mount respiratory protective device.

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**

Ensure good ventilation/exhaustion at the workplace.

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

Do not inhale gases / fumes / aerosols.

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.

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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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:**

Keep container tightly sealed.

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**

**8.1 Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>Reaction mass of ethylbenzene and 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): EH40/2020

IOELV (EU): (EU) 2019/1831

<b>Ingredients with biological limit values:</b>	
<b>Reaction mass of ethylbenzene and xylene</b>	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

**Regulatory information** BMGV (Great Britain): EH40/2020

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

Ensure good ventilation/exhaustion at the workplace.

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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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A2/P2 filter (EN 14387)

**Hand protection**



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.

When choosing protective gloves, the breakthrough time, rate of penetration and degradation (EN 374) should be taken into account.

**Material of gloves**

Recommended material thickness:  $\geq 0.7$  mm

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**

Permeation level and breakthrough time: level 6  $\geq 480$  min.

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

**Eye/face protection**



Tightly sealed goggles (EN 166 / EN 170)

**Body protection:** Protective work clothing (EN 14325)

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Liquid
<b>Colour:</b>	Grey
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	$>70$ °C
<b>Flammability</b>	Highly flammable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	1 Vol %
<b>Upper:</b>	7 Vol %
<b>Flash point:</b>	-1 °C
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	6-6.5
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>Dynamic at 20 °C:</b>	200,000 mPas
<b>Solubility</b>	
<b>water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	48 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1.43 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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<b>9.2 Other information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Highly viscous
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Highly flammable liquid and vapour.
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

## **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 hazard classes as defined in Regulation (EC) No 1272/2008**

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

<b>LD/LC50 values relevant for classification:</b>		
<b>Reaction mass of ethylbenzene and xylene</b>		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
<b>hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>		
Dermal	LD50	2,800-3,100 mg/kg (rat)

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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<b>162627-17-0 fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine</b>		
Oral	LD50	10,000 mg/kg (rat)

**Primary irritant effect:**

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation** Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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

**STOT-single exposure** May cause respiratory irritation.

**STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.

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

**11.2 Information on other hazards**

<b>Endocrine disrupting properties</b>
None of the ingredients is listed.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

<b>12.2 Persistence and degradability</b>	
<b>hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	
Biodegradation	100 % (readily biodegradable)

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

**Additional ecological information:**

**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

**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.

<b>European waste catalogue</b>	
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.

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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**SECTION 14: Transport information**

<b>14.1 UN number or ID number</b> <b>ADR, IMDG, IATA</b>	UN1139
<b>14.2 UN proper shipping name</b> <b>ADR</b> <b>IMDG, IATA</b>	1139 COATING SOLUTION COATING SOLUTION
<b>14.3 Transport hazard class(es)</b> <b>ADR, IMDG, IATA</b>	<div style="text-align: center;">  </div> <div> <b>Class</b> 3  <b>Label</b> 3 </div>
<b>14.4 Packing group</b> <b>ADR, IMDG, IATA</b>	II
<b>14.5 Environmental hazards:</b> <b>Marine pollutant (IMDG):</b>	Not applicable. No
<b>14.6 Special precautions for user</b> <b>Hazard identification number (Kemler code):</b> <b>EMS Number:</b> <b>Stowage Category</b>	Warning: Flammable liquids. 33 F-E, S-E B
<b>14.7 Maritime transport in bulk according to</b> <b>IMO instruments</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 1139 COATING SOLUTION, 3, II

**SECTION 15: Regulatory information**

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

**Poisons Act**

<b>Regulated explosives precursors</b>
None of the ingredients is listed.
<b>Regulated poisons</b>
None of the ingredients is listed.
<b>Reportable explosives precursors</b>
None of the ingredients is listed.
<b>Reportable poisons</b>
None of the ingredients is listed.

**Directive 2012/18/EU**

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

**Seveso category** P5c FLAMMABLE LIQUIDS

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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**Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t**

**Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t**

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**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**

The above information is based on currently available data characterising the product. They do not constitute a guarantee or quality specification. It should be regarded as a guideline for safe use, storage, transport, disposal in case of release into the environment. It is the responsibility of the user to create conditions for the safe use of the product and the user accepts responsibility for any consequences resulting from improper use of this product.

**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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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.

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids

Bridging principles

Skin corrosion/irritation

Serious eye damage/irritation

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated 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.

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**Trade name: CARROSS PROTECTION ANTI-GRAVILLON GRIS**

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**Version number of previous version: 1.0**

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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 number assigned to the chemical in the Chemical Abstracts Service list

LC50: median lethal concentration

LD50: lethal dose 50%

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquid substance. Hazard category 2

Flam. Liq. 3: Flammable liquid substance. Hazard category 3

Acute Tox. 4: Acute toxicity. Hazard category 4

Skin Irrit. 2: Skin corrosion/irritation. Hazard category 2

Eye Irrit. 2: Serious eye damage/eye irritation. Hazard category 2

Skin Sens. 1A: Skin sensitisation. Hazard category 1A

STOT SE 3: Toxic effects on target organs - single exposure. Hazard category 3

STOT RE 2: Toxic effects on target organs - repeated exposure. Hazard category 2

Asp. Tox. 1: Aspiration hazard. Hazard category 1

Aquatic Chronic 2: Presenting a hazard to the aquatic environment. Chronic hazard, Category 2

Aquatic Chronic 3: Presenting a hazard to the aquatic environment. Chronic hazard, Category 3

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

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