

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

· 1.1 Product identifier

· Trade name: <u>STRIP OFF</u> · Article number: EU66203

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

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Product category PC35 Washing and cleaning products (including solvent based products)

· Process category

PROC7 Industrial spraying PROC11 Non industrial spraying

· Application of the substance / the mixture Paint remover

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

ZEP UK Ltd

PO Box 12 Tanhouse Lane

Widnes Cheshire, WA8 0RD

United Kingdom

Phone: +44 0151 422 1000 FAX: +44 0151 422 1011 @: info@zep.co.uk web: www.zep.co.uk

ZEP Industries BV

Vierlinghweg 30

4612 PN Bergen op Zoom

The Netherlands

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@: sales@zepbenelux.com

ZEP ITALIA SRL

Via Netunese Km. 25.000

04011 Aprilia (LT) - Italy

Tel: +39.06.926691

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@: tecnico@zepeurope.com

Sito: www.zep.it

· Further information obtainable from:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395 IT: Tel: +39 069 266 91Fax: +39 06.927 470 61 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

· 1.4 Emergency telephone number:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395 IT: Tel: +39 069 266 91Fax: +39 06.927 470 61 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

#### SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

*F*+; *Extremely flammable* 

R12: Extremely flammable.

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· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurised container.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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

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

· Hazard pictograms





GHS02

GHS07

- · Signal word Danger
- · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.H319 Causes serious eye irritation.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves.

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

do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- · 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.
- · 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.

CAS: 109-87-5	dimethoxymethane	
EINECS: 203-714-2	<mark>ò</mark> F R1 Ì	
	🄷 Flam. Liq. 2, H225	
CAS: 74-98-6	propane	10-25%
EINECS: 200-827-9	F+ R12	
Reg.nr.: 012119486944-21-xxxx	Flam. Gas 1, H220	
	Press. Gas C, H280	
CAS: 646-06-0	1,3-dioxolane	10-25%
EINECS: 211-463-5	<b>★</b> Xi R36	
	<b>▶</b> F R11	
	♦ Flam. Liq. 2, H225	
	♦ Eye Irrit. 2, H319	
CAS: 67-63-0	propan-2-ol	2.5-5%
EINECS: 200-661-7	<b>★</b> Xi R36	
Reg.nr.: 01-2119457558-25-xxxx		
	R67	
	♦ Flam. Liq. 2, H225	
	♦ Eye Irrit. 2, H319; STOT SE 3, H336	

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		(Contd. of page
CAS: 64-17-5	ethanol	2.5-5%
EINECS: 200-578-6	<b>8</b> F R11	
Reg.nr.: 01-2119457610-43-xxxx	<b>♦</b> Flam. Liq. 2, H225	
CAS: 141-43-5	2-aminoethanol	1-2.5%
EINECS: 205-483-3	C R34	
Reg.nr.: 01-2119486455-28-xxxx	<b>X</b> n R20/21/22	
	Skin Corr. 1B, H314	
	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 78-93-3	butanone	1-2.5%
EINECS: 201-159-0	<b>▼</b> Xi R36	
Reg.nr.: 01-2119457290-43-xxxx	F R11	
_	R66-67	
	<b>♠</b> Flam. Liq. 2, H225	
	Eye Irrit. 2, H319; STOT SE 3, H336	
EC number: 919-857-5	Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, <2% aromatics	1-2.5%
Reg.nr.: 01-2119463258-33	<b>▼</b> Xn R65	
o .	R10-66-67	
	♠ Flam. Liq. 3, H226	
	<b>♦</b> Asp. Tox. 1, H304	
	** STOT SE 3, H336	

· Ingredients according to Detergents Regulation 648/2004/EC For the wording of the listed risk 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.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Seek immediate medical advice.
- · 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:

Water haze

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · 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

Keep away from heat and direct sunlight.

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Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

 $Do \ not \ spray \ onto \ a \ naked \ flame \ or \ any \ incandescent \ material.$ 

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage.
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

	-	*	onal protection
Additional	information ab	out design of techn	<b>sical facilities:</b> No further data; see item 7.
	l parameters		
_		_	nitoring at the workplace:
	limethoxymetha		
WEL (Gree	at Britain)	Short-term value: 3950 mg/m³, 1250 ppm Long-term value: 3160 mg/m³, 1000 ppm	
67-63-0 pr	opan-2-ol (2.5-3	5%)	
WEL (Gree	at Britain)		1250 mg/m³, 500 ppm 999 mg/m³, 400 ppm
64-17-5 etl	hanol (2.5-5%)		
WEL (Gree	at Britain)	Long-term value: 1	1920 mg/m³, 1000 ppm
141-43-5 2	-aminoethanol	(1-2.5%)	
WEL (Gree	at Britain)	Short-term value: 7 Long-term value: 2 Sk	
		Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm Skin	
78-93-3 bu	tanone (1-2.5%	6)	
WEL (Great Britain) Short-term value: 8 Long-term value: 6			899 mg/m³, 300 ppm 600 mg/m³, 200 ppm
IOELV (European Union) Short-term value: Long-term value: 6			900 mg/m³, 300 ppm 500 mg/m³, 200 ppm
DNELs			
67-63-0 pr	opan-2-ol		
Oral	DNEL Long ter	rm-systemic	26 mg/kg human/day (consumer)
Dermal	DNEL Long ter	rm-systemic	319 mg/kg human/day (consumer)
			888 mg/kg human/day (worker)
Inhalative DNEL Long term		rm-systemic mg/m3	89 mg/m3 (consumer)
			500 mg/m3 (worker)
64-17-5 eth	hanol		
Oral	DNEL Long term-systemic		87 mg/kg human/day (consumer)
Dermal	DNEL Long ter	rm-systemic	206 mg/kg human/day (consumer)
			343 mg/kg human/day (worker)

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			(Contd. of page
Inhalative	alative DNEL Long term local mg/m3		950 mg/m3 (consumer)
			1900 mg/m3 (worker)
	DNEL Long ter	m-systemic mg/m3	
			950 mg/m3 (worker)
78-93-3 bu			
Oral	DNEL acute-sy.		31 mg/kg human/day (worker)
Dermal	DNEL Acute-sy		412 mg/kg human/day (worker)
	DNEL Acute-sy	_	106 mg/m3 (worker)
Hydrocarb			s, cyclics, <2% aromatics
Oral	DNEL Long ter	m-systemic	125 mg/kg human/day (consumer)
Dermal	DNEL Long ter	m-systemic	125 mg/kg human/day (consumer)
			208 mg/kg human/day (worker)
Inhalative	DNEL Long ter	m-systemic mg/m3	900 mg/m3 (consumer)
			871 mg/m3 (worker)
PNECs			
67-63-0 pr	opan-2-ol		
		140.9 n	ng/L (-)
PNEC Fre	shwater sedimen	t 552 mg	/Kg (-)
PNEC Intermittent release 140.9 m		140.9 n	ng/L (-)
PNEC Mai	rine water sedim	ent 552 mg	/Kg (-)
PNEC Mai	rinewater mg/L	140.9 n	ng/L (-)
PNEC Soil	!	28 mg/s	Kg (-)
64-17-5 eti	hanol		
PNEC Fre	shwater mg/L	0.96 mg	g/L (-)
S .		at 3.6 mg/	Kg(-)
PNEC Inte	ermittent release	2.75 mg	g/l (-)
		ent 2.9 mg/	Kg(-)
_		0.79 m <sub>s</sub>	g/L (-)
PNEC Sewage treatment Plant mg/L 580 mg/		lant mg/L 580 mg	/L (-)
PNEC Soil 0.63 mg.		0.63 mg	g/Kg (-)
Ingredients with biological limit values:			
78-93-3 butanone (1-2.5%)			
BMGV (Great Britain) 70 µmol/L  Medium: urine  Sampling time: post shift Parameter: butan-2-one			

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- · Protection of hands:



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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.

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· 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. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- · Not suitable are gloves made of the following materials: Strong material gloves
- · Eye protection:



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Aerosol
Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined.

pH-value: Not determined.

· Change in condition

**Melting point/Melting range:** Undetermined. **Boiling point/Boiling range:** -44 °C

• Flash point:  $< 0 \, ^{\circ}C$ 

Flammability (solid, gaseous): Not applicable.
 Ignition temperature: 235 °C

• Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are

possible.

· Explosion limits:

 Lower:
 1.7 Vol %

 Upper:
 10.9 Vol %

• Vapour pressure at 20 °C: 3500 hPa
 • Density at 20 °C: 0.79 g/cm³

Relative density
Vapour density
Evaporation rate
Not determined.
Not applicable.

· Solubility in / Miscibility with

water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Solvent content:

Organic solvents: 82.8 %

• 9.2 Other information No further relevant information available.

#### SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.

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- · 10.4 Conditions to avoid No further relevant information available.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- $\cdot \textbf{10.6 Hazardous decomposition products:} \ \textit{No dangerous decomposition products known}.$

## SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

Acute toxi	-	nt for classification:
	,3-dioxolane	i for cuissification.
Oral	LD50	3000 mg/kg (Rat)
Dermal	LD50	8480 mg/kg (Rabbit)
Inhalative	LC50/4 h	20.65 mg/ltr (Rat)
67-63-0 pr	opan-2-ol	
Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (rab)
Inhalative	LC50 / 4 h	30 mg/ltr (Rat)
	EC50 / 24 h	>1000 mg/ltr (Daphnia magna (water flea))
	LC50 / 96 h	9640 mg/ltr (fish)
64-17-5 eti	hanol	
Oral	LD50	7060 mg/kg (Rat)
Inhalative	LC50/4 h	20000 mg/ltr (Rat)
	EC 50 / 48 h	10800 mg/ltr (Daphnia magna (water flea))
141-43-5 2	-aminoethan	ol
Oral	LD50	1720 mg/kg (Rat)
Dermal	LD50	1018 mg/kg (Rabbit)
	EC 50 / 48 h	> 100 mg/ltr (Daphnia magna (water flea))
	LC50 / 48 h	> 200 mg/ltr (Lepomus gobbosus (Zonnebaars))
78-93-3 bu	tanone	
Oral	LD50	2737 mg/kg (Rat)
Dermal	LD50	5000 mg/kg (Rabbit)
Inhalative	LC50 / 4 h	20 mg/ltr (Rat)
	EC 50 / 48 h	>5000 mg/ltr (Daphnia magna (water flea))
	EC 50 / 96 h	>2500 mg/ltr (Pimephales promelas)
	EC50	>100 mg/ltr (Selenastrum capricornutum (Algae))
Hydrocarb	ons, C9-11, n	-alkanes, isoalkanes, cyclics, <2% aromatics
Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rabbit)
Inhalative	LC50 / 4 h	4951 mg/ltr (Rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye:

Strong irritant with the danger of severe eye injury.

Irritating effect.

· Sensitisation: No sensitising effects known.

### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- $\cdot \textit{General notes:} \ \textit{Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.}$

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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

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 04 metallic packaging

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

### SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA UN1950
- · 14.2 UN proper shipping name
- · ADR 1950 AEROSOLS · IMDG AEROSOLS
- · IATA AEROSOLS, flammable
- · 14.3 Transport hazard class(es)
- $\cdot ADR$



· Class
 · Label
 2 5F Gases.
 2.1

· IMDG, IATA



· Class
 · Label
 2.1
 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Gases.

· Danger code (Kemler): · EMS Number: F-D,S-U

· 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
Excepted quantities (EQ)
IL
Code: E0

Not permitted as Excepted Quantity

· Transport category

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· Tunnel restriction code	D
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	75-100

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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.

#### Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.

R10 Flammable. R11 Highly flammable.

R12 Extremely flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36 Irritating to eyes.
R65 Harmful: may cause lung damage if swallowed.

R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.

*R67 Vapours may cause drowsiness and dizziness.* 

#### · Department issuing MSDS:

Customer Service

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#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

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 Flam. Gas 1: Flammable gases, Hazard Category 1 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas C: Gases under pressure: Compressed gas Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1
\* Data compared to the previous version altered.