

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

Printing date 21.03.2022

V- 3.0 (replaces version 2.0)

Revision: 18.03.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** CLEAR COAT MS/P ANTI SCRATCH - HARDENER**1.2 Relevant identified uses of the substance or mixture and uses advised against**Identified uses: professional use.
Uses advised against: do-it-yourself**Application of the substance / the mixture**

Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:****Further information obtainable from:****1.4 Emergency telephone number:**

122 or call your local doctor/poison center

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

Classification according to Regulation (EC) No 1272/2008



GHS02

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335-H336 May cause respiratory irritation. 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 GB CLP regulation.

Hazard pictograms

GHS02 GHS07

Signal word

Warning

Hazard-determining components of labelling:hexamethylene diisocyanate homopolymer
n-butyl acetate
tosyl isocyanate

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Hazard statements	H226	Flammable liquid and vapour.
	H332	Harmful if inhaled.
	H317	May cause an allergic skin reaction.
	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing mist/vapours/spray.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional information:	EUH066	Repeated exposure may cause skin dryness or cracking. Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

* SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	25-50%
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17	hexamethylene diisocyanate homopolymer ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	10-25%
CAS: 4083-64-1 EINECS: 223-810-8 Reg.nr.: 01-2119980050-47	tosyl isocyanate ⚠ Resp. Sens. 1, H334; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335, EUH014, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % STOT SE 3; H335: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	0.1-<0.5%

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

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After inhalation:	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. Supply fresh air and to be sure call for a doctor.
After skin contact:	In case of unconsciousness place patient stably in side position for transportation. 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: CO₂, 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.
Hydrogen cyanide (HCN)
Isocyanate vapors.
Carbon monoxide and carbon dioxide

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

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.

6.2 Environmental precautions:

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

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.

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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.
 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.
 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 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**
8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****123-86-4 n-butyl acetate**

WEL (Great Britain) Short-term value: 966 mg/m³, 200 ppm
 Long-term value: 724 mg/m³, 150 ppm

IOELV (EU) Short-term value: 723 mg/m³, 150 ppm
 Long-term value: 241 mg/m³, 50 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL (Great Britain) Short-term value: 548 mg/m³, 100 ppm
 Long-term value: 274 mg/m³, 50 ppm
 Sk

IOELV (EU) Short-term value: 550 mg/m³, 100 ppm
 Long-term value: 275 mg/m³, 50 ppm
 Skin

4083-64-1 tosyl isocyanate

WEL (Great Britain) Short-term value: 0.07 mg/m³
 Long-term value: 0.02 mg/m³
 Sen; as -NCO

Regulatory information

WEL (Great Britain): EH40/2020
 IOELV (EU): (EU) 2019/1831

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DNELs**123-86-4 n-butyl acetate**

Dermal DNEL 7 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 960 mg/m³ (acute - systemic effects, workers)960 mg/m³ (acute - local effects, workers)480 mg/m³ (long-term - systemic effects, workers)480 mg/m³ (long-term - local effects, workers)**28182-81-2 hexamethylene diisocyanate homopolymer**Inhalative DNEL 1 mg/m³ (acute - local effects, workers)0.5 mg/m³ (long-term - local effects, workers)**108-65-6 2-methoxy-1-methylethyl acetate**

Dermal DNEL 153.5 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 275 mg/m³ (long-term - systemic effects, workers)**4083-64-1 tosyl isocyanate**

Dermal DNEL 0.92 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 3.24 mg/m³ (long-term - systemic effects, workers)**PNECs****123-86-4 n-butyl acetate**

PNEC 0.18 mg/l (freshwater environment)

0.018 mg/l (marine environment)

0.36 mg/l (intermittent releases)

35.6 mg/l (sewage treatment plants)

PNEC 0.981 mg/kg (freshwater sediment environment)

28182-81-2 hexamethylene diisocyanate homopolymer

PNEC 0.127 mg/l (freshwater environment)

0.0127 mg/l (marine environment)

1.27 mg/l (intermittent releases)

38.3 mg/l (sewage treatment plants)

PNEC 266,700 mg/kg (freshwater sediment environment)

26,670 mg/kg (marine sediment environment)

53,182 mg/kg (soil)

108-65-6 2-methoxy-1-methylethyl acetate

PNEC 0.635 mg/l (freshwater environment)

0.0635 mg/l (marine environment)

6.35 mg/l (intermittent releases)

100 mg/l (sewage treatment plants)

PNEC 3.29 mg/kg (freshwater sediment environment)

0.329 mg/kg (marine sediment environment)

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4083-64-1 tosyl isocyanate

PNEC 0.03 mg/l (freshwater environment)

0.003 mg/l (marine environment)

0.3 mg/l (intermittent releases)

0.4 mg/l (sewage treatment plants)

PNEC 0.0172 mg/kg (marine environment)

0.172 mg/kg (freshwater sediment environment)

0.0168 mg/kg (soil)

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

8.2 Exposure controls**Appropriate engineering controls**

No further data; see item 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.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

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.

Filter A2/P2

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.

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

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

PVA gloves

Recommended thickness of the material: $\geq 0,7$ 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 materialValue for the permeation: Level 6 ≥ 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

Body protection:

Protective work clothing

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* SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Fluid
Colour:	Colourless/ slightly yellow
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	124 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	1.2 Vol %
Upper:	15 Vol %
Flash point:	>23 °C
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Reacts with water.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	10.7 hPa
Density and/or relative density	
Density at 20 °C:	0.98-0.99 g/cm ³
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void

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Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	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	Reacts with water. Reacts with alkali, amines and strong acids. Reacts with oxidising agents. 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:	Carbon monoxide and carbon dioxide 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 Harmful if inhaled.

LD/LC50 values relevant for classification:

123-86-4 n-butyl acetate

Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	>14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)

28182-81-2 hexamethylene diisocyanate homopolymer

Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	ATE	1.5 mg/l (dust/ mist)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/6 h	4,345 mg/l (rat)

4083-64-1 tosyl isocyanate

Oral	LD50	2,330 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
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.

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STOT-single exposure *May cause respiratory irritation. May cause drowsiness or dizziness.*
STOT-repeated exposure *Based on available data, the classification criteria are not met.*
Aspiration hazard *Based on available data, the classification criteria are not met.*

11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:****123-86-4 n-butyl acetate**

LC50/96 h 18 mg/l (*Pimephales promelas*)
 TT/16 h 115 mg/l (*Pseudomonas putida*)
 EC50/48 h 44 mg/l (*daphnia*)
 EC50/72 h 675 mg/l (*algae*)

108-65-6 2-methoxy-1-methylethyl acetate

LC50/96 h >100 mg/l (*fish*)
 EC50/48 h >500 mg/l (*Daphnia magna*)
 EC20/30 min >1,000 mg/l (*microorganisms*)
 EC50/72 h >1,000 mg/l (*Pseudokirchnerella subcapitata*)
 EC50 >100 mg/l (*Pseudokirchnerella subcapitata*)
 >100 mg/l (*Pimephales promelas*)
 >100 mg/l (*Daphnia magna*)

4083-64-1 tosyl isocyanate

EC50/48 h >100 mg/l (*Daphnia magna*)
 EC50/72 h 30 mg/l (*Pseudokirchnerella subcapitata*)
 LC50/48 h >45 mg/l (*fish*)

12.2 Persistence and degradability**123-86-4 n-butyl acetate**

Biodegradation 83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)

28182-81-2 hexamethylene diisocyanate homopolymer

Biodegradation 1 % (not readily biodegradable) (OECD 301 C, 28 d, aerobic)

108-65-6 2-methoxy-1-methylethyl acetate

Biodegradation 100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)

4083-64-1 tosyl isocyanate

Biodegradation 86 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)

12.3 Bioaccumulative potential**123-86-4 n-butyl acetate**

BCF 15.3 (-)

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log Pow 2.3

28182-81-2 hexamethylene diisocyanate homopolymer

BCF 3.2 (-)

log Kow 9.81 (Kow)

108-65-6 2-methoxy-1-methylethyl acetate

log Pow 0.56

12.4 Mobility in soil**123-86-4 n-butyl acetate**

log Koc 1.27

108-65-6 2-methoxy-1-methylethyl acetate

Koc 1.7

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.

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 or ID number

ADR, IMDG, IATA

UN1263

14.2 UN proper shipping name

ADR

1263 PAINT RELATED MATERIAL

IMDG, IATA

PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class

3

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Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
Marine pollutant (IMDG):	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	F-E, S-E
Stowage Category	A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

Transport/Additional information:

ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E

IMDG	
Limited quantities (LQ)	5L
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

*** 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	P5c FLAMMABLE LIQUIDS
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.

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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

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

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
EUH014 Reacts violently with water.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids

Bridging principles

Acute toxicity - inhalation

Skin sensitisation

Specific target organ toxicity (single exposure)

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Version number of previous**version:**

2.0

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 Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (GB REACH)
PNEC: Predicted No-Effect Concentration (GB REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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Resp. Sens. 1: Sensitisation - Respiratory. Hazard category 1

Skin Sens. 1: Sensitisation - Skin. Hazard Category 1

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

Sources

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

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