




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

- 1.1 Product identifier
- Trade name: **ASODUR-LE (B-Komponente)**
- Article number: 205797B
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.
- Application of the substance / the mixture Epoxy coating
- 1.3 Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:**  
SCHOMBURG GmbH & Co. KG  
Aquafinstr. 2-8  
D-32760 Detmold  
Germany  
-----  
Tel: ++49 (0)5231/953-00  
Fax: ++49 (0)5231/953-123  
email: info@schomburg.de  
web: www.schomburg.de
- **Informing department:**  
Product Safety Department  
  
Tel: ++49 (0)5231/953-193  
Fax: ++49 (0)5231/953-106  
email: SDB@schomburg.de

**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- **Classification according to Regulation (EC) No 1272/2008**
-  GHS05 corrosion  
  
Skin Corr. 1A     H314 Causes severe skin burns and eye damage.  
Eye Dam. 1     H318 Causes serious eye damage.
-  GHS09 environment  
  
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
-  GHS07  
  
Acute Tox. 4     H302 Harmful if swallowed.  
Acute Tox. 4     H332 Harmful if inhaled.  
Skin Sens. 1     H317 May cause an allergic skin reaction.
- 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** GHS05, GHS07, GHS09

**Trade name: ASODUR-LE (B-Komponente)**

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· **Signal word** Danger

· **Hazard-determining components of labelling:**

m-phenylenebis(methylamine)  
2,2,4-trimethylhexan-1,6-diamine  
phenol  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
Phenol, methylstyrenated

· **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe dusts or mists.  
P273 Avoid release to the environment.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
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:** Hardener, aminformulation

· **Dangerous components:**

CAS: 1477-55-0	m-phenylenebis(methylamine)	25-50%
EINECS: 216-032-5	⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 61788-44-1	phenol	25-50%
EINECS: 262-975-0	⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 25513-64-8	2,2,4-trimethylhexan-1,6-diamine	10-25%
EINECS: 247-063-2	⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 68512-30-1	Phenol, methylstyrenated	10-25%
EINECS: 270-966-8	⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 69-72-7	Salicylic acid	2.5-10%
EINECS: 200-712-3	⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2.5-10%
EINECS: 220-666-8	⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

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· **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**

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

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

Personal protection for the First Aider.

It is possible to choke in case of vomiting in unconsciousness.

Bring unconscious persons into a stable position on side.

Keep the respiratory tract free (remove dentures and vomiting).

Check the pulse. In case of heart failure you have to make a cardiac massage. In case of stoppage of breathing: artificial respiration.

Take up a doctor immediately!

#### · **After inhalation**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air and call for doctor for safety reasons.

#### · **After skin contact**

If symptoms appearance, call the doctor.

Instantly wash with water and soap and rinse thoroughly.

Wash with water and soap.

Change immediately contaminated clothes.

#### · **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

#### · **After swallowing**

Do not induce vomiting; instantly call for medical help.

Instantly call for doctor.

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Show the pack or the label to the doctor.

### · 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>, extinguishing powder or water jet. Fight larger fires with water jet.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

### · 5.2 Special hazards arising from the substance or mixture

Formation of poisonous gases during heating or in fires.

### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus.

#### · **Additional information**

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

Follow the emergency-plan.

Burst- and explosion-danger by increasing pressure.

In case of fire chill the container with water spray.

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Cleaning may be carried out only with skilled persons.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding, inflammable material (sand, diatomite, acid binders, universal binder).
- **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 information on disposal.

### \* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Work with fresh air supply, keep doors and windows open.  
Avoid splashes. Do not spray on hot surfaces.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Keep away from children.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Do not leave open containers.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Please follow the rules of the VCI-Storage-Concept for chemicals.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in a locked cabinet and out of the reach of children.
- **7.3 Specific end use(s)** No further relevant information available.

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

- **Additional information about design of technical systems:**  
It must be possible to wash the skin in the working area.  
Eye-wash bottle must be available.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Clean skin only with cleaning agent especially for epoxy resin.  
Don't use solvent for skin cleaning!  
Clean clothes which are contaminate with epoxi resin before unusing again.  
The usual precautionary measures should be adhered to in handling the chemicals.  
Keep away from foodstuffs, beverages and food.

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Instantly remove any soiled and impregnated garments.  
Avoid contact with the eyes and skin.  
Do not eat, drink or smoke while working.  
Use skin protection cream for preventive skin protection.  
Be sure to clean skin thoroughly after work and before breaks.

· **Breathing equipment:**

Filter A/P2.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· **Protection of hands:**

Nitrile coated protective gloves (category III, material strength: 0,425 mm break through time > 480 Min (eg. Ansell Chemical Protective gloves Sol-Vex® 37-900)

Do not reuse one-way-gloves

Hand Protection: Nitril-rubber-latex-gloves.

In case of wearing synthetic protective gloves use cotton-gloves as underwear.

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

· **Penetration time of glove material**

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

· **Not suitable are gloves made of the following materials:**

Leather gloves

Strong gloves

· **Eye protection:**

Tightly sealed safety glasses.

In case of splashing use protecting basket-glasses.

· **Body protection:**

Acid resistant protective clothing

Alkaline resistant protective clothing

Apron

Use an Overall of heavy cotton or non-returnable Tyvek/Saranex 23 P vleece.

Contaminated protection clothes must be cleaned carefully before reuse.

**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>	Yellowish
· <b>Smell:</b>	Amine-like
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

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· <b>Change in condition</b>	
<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	>200 °C
· <b>Flash point:</b>	>100 °C
· <b>Inflammability (solid, gaseous)</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Steam pressure:</b>	Not determined.
· <b>Density at 20 °C</b>	1.06 g/cm <sup>3</sup> (ISO 2811-2)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	
	Not miscible or difficult to mix
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	399 mPas (ISO 3219)
<b>kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic reaction
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Acids  
Strong oxidationresorts
- **10.6 Hazardous decomposition products:**  
In case of fire:  
Poisonous gases/vapours  
Corrosive gases/vapours

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if swallowed or if inhaled.

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**Trade name: ASODUR-LE (B-Komponente)**

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**LD/LC50 values that are relevant for classification:**
**1477-55-0 m-phenylenebis(methylamine)**

Oral LD50 930 mg/kg (rats)  
Dermal LD50 >3,100 mg/kg (rabbit) (OECD 402)

**61788-44-1 phenol**

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

**25513-64-8 2,2,4-trimethylhexan-1,6-diamine**

Oral LD50 910 mg/kg (rats)  
EC/LC50 (24h) 31.5 mg/l (Daphnia magna)

**68512-30-1 Phenol, methylstyrenated**

Oral LD50 3,600 mg/kg (rabbit)  
>2,000 mg/kg (rats)  
Dermal LD50 2,000 mg/kg (rabbit)  
>2,000 mg/kg (rats)

**69-72-7 Salicylic acid**

Oral LD50 891 mg/kg (rats)  
Dermal LD50 >2,000 mg/kg (rats)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Oral LD50 1,030 mg/kg (rats) (OECD 401)  
Dermal LD50 1,840 mg/kg (rabbit)  
>2,000 mg/kg (rats)

**Primary irritant effect:**
**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Additional toxicological information:** Sensitizing

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

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

· **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.

**SECTION 12: Ecological information**
**12.1 Toxicity**
**Aquatic toxicity:**
**1477-55-0 m-phenylenebis(methylamine)**

LC50/96h 87.6 mg/l (fish toxicity)  
>100 mg/l (rainbow trout)

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&gt;100 mg/l (Zebrafisch)

EC50 (48h) 15.2 mg/l (Daphnia magna)

EC/LC50 (72h) 20.3 mg/l (algae toxicity)

**61788-44-1 phenol**

EC50 (48h) 1-10 mg/l (Daphnia magna)

EC/LC50 (72h) 3.14 mg/l (Scenedesmus subspicatus)

LL50 14.8 mg/l (fish toxicity)

**25513-64-8 2,2,4-trimethylhexan-1,6-diamine**

LC50 (48h) 174 mg/l (Leuciscus idus)

EC/LC50 (17h) 89 mg/l (Pseudomas putida)

ERC50 43.5 mg/l (Scenedesmus subspicatus)

**68512-30-1 Phenol, methylstyrenated**

EL 50 870 mg/l (Daphnia magna)

&gt;100 mg/l (Scenedesmus subspicatus)

LL50 25.8 mg/l (fish toxicity)

**69-72-7 Salicylic acid**

LC50/96h 1,380 mg/l (fish toxicity)

EC50 (48h) 870 mg/l (Daphnia magna)

EC/LC50 (72h) &gt;100 mg/l (algae toxicity)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

LC50/96h 110 mg/l (Leuciscus idus)

EC50 (48h) 23 mg/l (Daphnia magna)

EC/10/18h 1,120 mg/l (Pseudomas putida)

ERC50 &gt;50 mg/l (Scenedesmus subspicatus)

· **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:**· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

· **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 be specially treated under adherence to official regulations.

Cured materials which mixed with epoxy resin can put to the household-rubbish, after consulting the waste disposal.

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

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· **European waste catalogue**

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01 00 wastes from MFSU and removal of paint and varnish

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

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN2735

· **14.2 UN proper shipping name**

· **ADR**

2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 2,2,4-trimethylhexan-1,6-diamine), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

· **IATA**

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 2,2,4-trimethylhexan-1,6-diamine), MARINE POLLUTANT

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**



· **Class**

8 Corrosive substances.

· **Label**

8

· **IATA**



· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4 Packing group**

· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: phenol

· **Marine pollutant:**

No

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Kemler Number:**

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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.02.2020

Version number 14

Revision: 24.02.2020

Trade name: **ASODUR-LE (B-Komponente)**

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· <b>EMS Number:</b>	F-A,S-B
· <b>Segregation groups</b>	Alkalis
· <b>Stowage Category</b>	A
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids
· <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>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), 2,2,4-TRIMETHYLHEXAN-1,6-DIAMINE), 8, II, ENVIRONMENTALLY HAZARDOUS

## 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
- **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
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H411 Toxic to aquatic life with long lasting effects.

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

Printing date 24.02.2020

Version number 14

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**Trade name: ASODUR-LE (B-Komponente)**

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H412 Harmful to aquatic life with long lasting effects.

- **Department issuing data specification sheet:** Environment protection department.

- **Contact:** Mr. Guido Herfort

- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – 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

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

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