

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.09.2022

Revision: 29.08.2022

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
 - **Trade name: ROMPOX-D1 Komponente B**
 - **Relevant identified uses of the substance or mixture and uses advised against**
For professional users only.
Not suitable for use in do-it-yourself applications.
 - **Sector of Use SU19** Building and construction work
 - **Product category PC32** Polymer preparations and compounds
 - **Process category PROC19** Manual activities involving hand contact
 - **Environmental release category**
ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
 - **Article category AC13** Plastic articles
 - **Technical function** Resins (prepolymers)
 - **Application of the substance / the mixture** Hardeners for mortar systems
 - **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
ROMEX Produktionsgesellschaft mbH
Mühlgrabenstraße 19
D-53340 MECKENHEIM
DEUTSCHLAND
H.Blaesner@romex-rpg.de
 - **Further information obtainable from:** Abteilung Produktsicherheit
 - **Emergency telephone number:**
National Poisons Information Service, (NPIS)
City Hospital, Birmingham B187QH, United Kingdom
Phone: +44 121 507 4123
- allistervale@npis.org, sallybradberry@npis.org
www.npis.org
- Giftnotrufzentrale BONN, Germany
Tel.: 0049(0)228-19240
- ROMEX, Abtlg. Produktsicherheit von 08:00-17:00 : +49 (0)2225 70954-10

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms



GHS05 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

1,3-Cyclohexanedimethanamine

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

· 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.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

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

· Dangerous components:

CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	12.5–37.5%
CAS: 2579-20-6 EINECS: 219-941-5	1,3-Cyclohexanedimethanamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412	5–18.8%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	5–18.8%

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CAS: 68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	5–18.8%
CAS: 260549-92-6	Decanoic acid, compds. with 1,3-benzenedimethanaminebisphenol A-bisphenol-A diglycidyl etherdiethylenetriamine, glycidyl Phenylether ⚠ Eye Dam. 1, H318	10–15%
CAS: 160875-66-1 Polymer	2-Propylheptanoethoxylat (6-10 EO) ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	5–<9.7%
CAS: 10563-29-8 EINECS: 234-148-4	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine ⚠ Skin Corr. 1A, H314; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1B, H317	1.25–7.5%
CAS: 2413166-88-6	1,3-Bis(aminomethyl) cyclohexane reaction products ⚠ Skin Corr. 1C, H314; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412	1.25–7.5%

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

non-ionic surfactants	≥5 - <15%
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **Description of first aid measures**

· **General information:**

Immediately 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.

· **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.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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

No further relevant information available.

5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

· **Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

During heating or in case of fire poisonous gases are produced.

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- **Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.
Mouth respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in unopened original receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Store in dry conditions.
Store in a cool place.
Keep container tightly sealed.
- **Storage class:** 8 A
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit 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 valid during the making were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.
- **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.
- **Protection of hands:**



Protective gloves

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**
 Butyl rubber, BR
 Nitrile rubber, NBR
 Recommended material thickness: $\geq 0,5\text{mm}$
 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**
 The exact break through 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:**
 Strong material gloves
 Leather gloves
 Natural rubber, NR
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form:	Fluid
Colour:	Yellowish
Odour:	Ammonia-like
Odour threshold:	Not determined.

- **pH-value at 20 °C:** 11.6
 $\beta = 0,1\text{g/cm}^3$ in H₂O

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· Change in condition Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C
· Flash point:	>100 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	436 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	1.3 Vol %
Upper:	13 Vol %
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	1.03 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	950 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	12.5–37.5 %
Water:	10–20 %
VOC (EC)	12.5–37.5 %
Solids content:	55–70 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity

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

Oral	NOEL maternal	50 mg/kg (rat) (OECD TG 414)
	NOEL Teratogenität / teratogenicity	250 mg/kg (rat, female) (OECD TG 414)

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	>719–2,785 mg/kg
Dermal	LD50	3,567–14,717 mg/kg
Inhalative	LC50/4 h	>11.1–33.4 mg/l (rat)

100-51-6 Benzyl alcohol

Oral	LD50	1,620 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4.178 mg/l (rat) (OECD TG 403)

2579-20-6 1,3-Cyclohexanedimethanamine

Oral	LD50	700 mg/kg (rat)
Dermal	LD50	1,700 mg/kg (rabbit)

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

Oral	LD50	1,030 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD TG 402) 1,840 mg/kg (rabbit)

160875-66-1 2-Propylheptanoethoxylat (6-10 EO)

Oral	LD50	700–1,700 mg/kg (rat)
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10563-29-8 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

Oral	LD50	1,670 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

· 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.

· Subacute to chronic toxicity:

· Result:

100-51-6 Benzyl alcohol

Oral	DNEL-Consumer	4 mg/kg
Dermal	DNEL-Worker	8 mg/kg bw/day
	DNEL-Consumer	4 mg/kg
Inhalative	DNEL-Worker	22 mg/m ³
	DNEL-Consumer	5.4 mg/m ³

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

Inhalative	DNEL-Worker	20.1 mg/m ³
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· Additional toxicological information:

· 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.

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- **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.

12 Ecological information

· Toxicity

· Aquatic toxicity:

100-51-6 Benzyl alcohol

LC50(96h)	10 mg/l (<i>Lepomis machrochirus</i>) 460 mg/l (<i>Pimephales promelas</i>) 645 mg/l (<i>leuciscus idus</i>)
BSB-5	1,550 mg O ² /l
EC50(16h)	>658 mg/l (<i>Pseudomonas putida</i>)
EC50(0,5h)	71.42 mg/l (<i>Photobacterium phosphoreum</i>) 400 mg/l (<i>Pseudomonas putida</i>)
EC50(24h)	400 mg/l (<i>daphnia magna</i>)
EC50 (96h)	640 mg/l (<i>Scenedesmus subspicatus</i>) 79 mg/l (<i>Scenedesmus quadicauda</i>)
ERrC50(72h)	770 mg/l ((algae)) (OECD 201)
IC50(72h)	770 mg/l (<i>Pseudokirchneria subcapitata</i>)
LC50/96h	460 mg/l (<i>Pimephales promelas</i>)
closed bottle test	90 % (Eliminationsgrad)
PNEC-freshwater	1–1.02 mg/l
PNEC-marine water	0.1 mg/l
PNEC-sediment (sea water)	0.527 mg/kg
PNEC-sediment (freshwater)	5.27 mg/kg
PNEC - intermittent release (freshwater)	2.3 mg/l

2579-20-6 1,3-Cyclohexanedimethanamine

LC50	130 mg/l (<i>leuciscus idus</i>) (Richtlinie 84/449/EWG, B.1)
EC50	90 mg/kg (<i>Pseudomonas putida</i>)

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

LC50(96h)	110 mg/l (<i>leuciscus idus</i>)
LC0 (96h)	70 mg/l (<i>Brachydanio rerio</i>)
EC10(18h)	1,120 mg/l (<i>Pseudomonas putida</i>)
ERrC50(72h)	>50 mg/l (<i>Scenedesmus subspicatus</i>)
PNEC-freshwater	0.06 mg/l
PNEC-marine water	0.006 mg/l
NOEC (504h)	3 mg/l (<i>daphnia magna</i>) (Methode : OECD 202 Teil 2)
NOEC (72)	1.5 mg/l (<i>Scenedesmus subspicatus</i>) (EG 88/302)

160875-66-1 2-Propylheptanoethoxylat (6-10 EO)

LC50(96h)	>10–100 mg/l (<i>Oncorhynchus mykiss</i>)
EC50/48h	>10–100 mg/l (<i>daphnia magna</i>)
EC50(72h)	>10–100 mg/l (<i>Scenedesmus subspicatus</i>)

10563-29-8 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

LC50(96h)	220 mg/l (<i>leuciscus idus</i>)
EC50(16h)	181 mg/l (<i>Pseudomonas putida</i>)

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EC20 (0,5h)


>1,000 mg/l (Belebtschlamm)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxic effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even small quantities leak into the ground.
 Harmful to aquatic organisms
 Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**
 Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · UN-Number · ADR, IMDG, IATA | UN2289 |
| <ul style="list-style-type: none"> · UN proper shipping name · ADR · IMDG, IATA | 2289 ISOPHORONEDIAMINE
ISOPHORONEDIAMINE |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADR | |
| <div style="text-align: center;">  </div> | |
| <ul style="list-style-type: none"> · Class · Label | 8 (C7) Corrosive substances.
8 |

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· **IMDG, IATA**

· Class	8 Corrosive substances.
· Label	8
· Packing group	III
· ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2289 ISOPHORONEDIAMINE, 8, III

15 Regulatory information

- **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.
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

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

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- **Relevant phrases**

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 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.
 H412 Harmful to aquatic life with long lasting effects.

- **Department issuing SDS:** Abteilung Umweltschutz

- **Contact:** Hr. Blaesner

- **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)
 VOC: Volatile Organic Compounds (USA, EU)
 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 – Category 4
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1B: Skin sensitisation – Category 1B
 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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