

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.09.2023

Version number 7 (replaces version 6)

Revision: 11.09.2023

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

#### 1.1 Product identifier

Trade name **EPOXY COLOR TOP KOMP A**

Article number: 6190-6196

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

Product category PC9a Coatings and paints, thinners, paint removers

#### Application of the substance / the mixture

Coating  
Sealing

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

##### Manufacturer/Supplier:

Remmers GmbH  
Bernhard-Remmers-Str. 13  
D-49624 Lönigen / Germany  
Tel.: +49(0)5432/83-0  
Fax: +49(0)5432/3985Remmers (UK) Limited  
Unit 4 , Lloyds Court  
Manor Royal, Crawley – West Sussex RH10 9QU  
fon +44 (0) 1293 594 010  
fax +44 (0) 1293 594 037

##### Information department:

Product Safety department: Phone: +44 (0) 1293 594 010  
Email: sales@remmers.co.ukk

#### 1.4 Emergency telephone number:

National Poisons Information Service (NPIS):  
In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 11124h-Transport Emergency Contact Phone Number:  
within USA and Canada: 1-800-424-9300  
outside USA and Canada: 001-703-527-3887

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|                   |   |
|-------------------|---|
| Skin Irrit. 2     | H315 Causes skin irritation.                          |
| Eye Irrit. 2      | H319 Causes serious eye irritation.                   |
| Skin Sens. 1      | H317 May cause an allergic skin reaction.             |
| Aquatic Chronic 2 | H411 Toxic 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 GB CLP regulation.

##### Hazard pictograms



GHS07 GHS09

Signal word Warning

##### Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq 700$ )  
bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight $<700$ )

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.  
maleic anhydride

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane  
1,6-Bis(2,3-epoxypropoxy)hexan

### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

### Additional information:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 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 the substances listed below with harmless additions.

| Dangerous components [% w/w]:  |  |                          |
|--|--|--------------------------|
| CAS: 25068-38-6<br>NLP: 500-033-5<br>Index number: 603-074-00-8<br>Reg.nr.: 01-2119456619-26-XXXX    | reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205<br>Specific concentration limits:<br>Skin Irrit. 2; H315: C $\geq$ 5%<br>Eye Irrit. 2; H319: C $\geq$ 5 % | $\geq$ 30-<40%           |
| CAS: 100-51-6<br>EINECS: 202-859-9<br>Index number: 603-057-00-5<br>Reg.nr.: 01-2119492630-38-XXXX   | benzyl alcohol<br>Acute Tox. 4, H302; Acute Tox. 4, H332   | $\geq$ 2.5-<5%           |
| CAS: 28064-14-4<br>NLP: 500-006-8<br>Reg.nr.: 01-2119454392-40-XXXX                                  | bisphenol F-(epichlorhydrin); epoxy resin(number average molecular weight<700)<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317   | $\geq$ 2.5-<5%           |
| CAS: 68609-97-2<br>EINECS: 271-846-8<br>Index number: 603-103-00-4<br>Reg.nr.: 01-2119485289-22-XXXX | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.<br>Skin Irrit. 2, H315; Skin Sens. 1, H317  | $\geq$ 2.5-<5%           |
| CAS: 13463-67-7<br>EINECS: 236-675-5   | titanium dioxide<br>substance with a Community workplace exposure limit  | $\geq$ 1-<2.5%           |
| CAS: 933999-84-9<br>EC number: 618-939-5<br>Reg.nr.: 01-2119463471-41-XXXX                           | Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412  | $\geq$ 0.25- $\leq$ 0.5% |

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|--|--|--------------------|
| CAS: 16096-31-4<br>EINECS: 240-260-4<br>Reg.nr.: 01-2119463471-41-XXXX                             | 1,6-Bis(2,3-epoxypropoxy)hexan<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412   | ≥0.1-≤0.25%        |
| CAS: 108-31-6<br>EINECS: 203-571-6<br>Index number: 607-096-00-9<br>Reg.nr.: 01-2119472428-31-XXXX | maleic anhydride<br>Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071<br>Specific concentration limit:<br>Skin Sens. 1A; H317: C ≥0.001 % | 0.0002%            |

**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

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

##### After inhalation

Supply fresh air and call for doctor for safety reasons.

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

**After skin contact** Wash immediately with water and soap and rinse thoroughly.

##### After eye contact

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

##### After swallowing

Rinse out mouth immediately with plenty of water and administer plenty of water in small swallows (diluting effect).

#### 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

symptomatic treatment

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents

Water spray jet

Foam

Carbon dioxide

Fire-extinguishing powder

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

May be released in case of fire

carbon monoxides

further harmful conflagration gases and fumes

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen chloride (HCl)

#### 5.3 Advice for firefighters

##### Protective equipment:

Wear full protective suit.

Wear self-contained breathing apparatus.

**Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

#### 6.2 Environmental precautions:

Do not allow to enter the ground/soil.

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

Inform responsible authorities in case product reaches bodies of water 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).

Dispose of contaminated material as waste according to item 13.

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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 information on disposal.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Use only in well ventilated areas.

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

**Information about protection against explosions and fires:** No special requirements.**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and containers:**

Suitable material for containers and pipes: Light metals and their alloys.

Prevent any penetration into the ground.

**Information on storage in a common storage facility:** none**Further information about storage conditions:**

Store container in a well ventilated position.

Protect from frost.

Keep container tightly closed.

**\* SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with limit values that require monitoring at the workplace:****CAS: 13463-67-7 titanium dioxide**

|     |   |
|-----|---|
| WEL | Long-term value: 10* 4** mg/m <sup>3</sup><br>*total inhalable **respirable |
|-----|---|

**CAS: 108-31-6 maleic anhydride**

|     |  |
|-----|--|
| WEL | Short-term value: 3 mg/m <sup>3</sup><br>Long-term value: 1 mg/m <sup>3</sup><br>Sen |
|-----|--|

**Additional information:** The lists that were valid during compilation were used as a 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**

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evaluated by the employer depending on the types of operations and the local circumstances. If a risk assessment on-site shows that there is no risk for employees, the personal protective equipment is not required or the amount of the PPE can be adapted accordingly.

**Respiratory equipment:**

Filter A (brown)

Only use ambient air independent respiratory equipment in pits, shafts and silos!

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

**Hand protection**

Long cuffed gloves

Protective gloves.

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

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

### Material of gloves

Nitrile rubber, NBR

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 determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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

**Eye/face protection** Tightly sealed safety glasses.

**Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Physical state

Fluid

#### Colour:

According to product specification

#### Odour:

Weak, characteristic

#### Odour threshold:

Not determined.

#### Melting point/freezing point:

Not determined

#### Boiling point or initial boiling point and boiling range

&gt;100 °C

#### Flammability

Not applicable.

#### Lower and upper explosion limit

#### Lower:

Not determined.

#### Upper:

Not determined.

#### Flash point:

&gt;100 °C

#### Ignition temperature:

not applicable

#### Decomposition temperature:

Not determined.

#### pH

Not determined.

#### Viscosity:

#### Kinematic viscosity

Not determined.

#### dynamic at 20 °C:

4,500 mPas

#### Solubility

#### Water:

Not miscible or difficult to mix

**Partition coefficient n-octanol/water (log value)** Not determined.

#### Vapour pressure:

Not determined.

#### Density and/or relative density

#### Density at 20 °C:

1.65 g/cm<sup>3</sup>

#### Relative density

Not determined.

#### Vapour density

Not determined.

### 9.2 Other information

#### Appearance:

#### Form:

Fluid

#### Important information on protection of health and environment, and on safety.

#### Explosive properties:

Product is not explosive.

#### Solvent separation test

&lt; 3 %

#### Change in condition

#### Evaporation rate

Not determined.

#### Information with regard to physical hazard classes

#### Explosives

Void

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|  |      |
|--|------|
| <b>Flammable gases</b>   | Void |
| <b>Aerosols</b>  | Void |
| <b>Oxidising gases</b>   | Void |
| <b>Gases under pressure</b>  | Void |
| <b>Flammable liquids</b>   | Void |
| <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 further relevant information available.

### 10.2 Chemical stability

**Thermal decomposition / conditions to be avoided:**

No decomposition if handled and stored according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

### 10.6 Hazardous decomposition products:

None if used properly.

None if stored properly.

## \* 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.

#### LD/LC50 values that are relevant for classification:

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700)**

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | >10,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat)  |

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

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

**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.

**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.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## \* 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.

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**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****Remark:** Toxic for fish**Additional ecological information:****General notes:**

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

Hazardous to drinking water even if small quantities leak into soil.

Also toxic for fish and plankton in bodies of water.

Toxic for aquatic organisms

\* **SECTION 13: Disposal considerations****Recommendation**

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

**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.

Packaging can be reused or recycled after cleaning.

\* **SECTION 14: Transport information****14.1 UN number or ID number  
ADR, IMDG, IATA**

UN3082

**14.2 UN proper shipping name  
ADR**

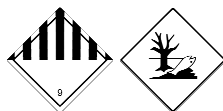
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average molecular weight ≤ 700)))

**IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average molecular weight ≤ 700))), MARINE POLLUTANT

**IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average molecular weight ≤ 700)))

**14.3 Transport hazard class(es)****ADR****Class**

9 (M6) Miscellaneous hazardous substances and articles.

**Label**

9

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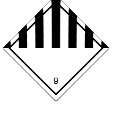
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|   |  |
|---|--|
| <b>IMDG</b>   |  |
|  |  |
| <b>Class Label</b>  | 9 Miscellaneous hazardous substances and articles.<br>9  |
| <b>IATA</b>   |  |
|  |  |
| <b>Class Label</b>  | 9 Miscellaneous hazardous substances and articles.<br>9  |
| <b>14.4 Packing group ADR, IMDG, IATA</b>   | III  |
| <b>14.5 Environmental hazards:</b>  | Product contains environmentally hazardous substances: Epoxy Resin (reaction product: bisphenol A-(epichlorhydrin) (number average molecular weight $\leq 700$ ))                |
| <b>Marine pollutant:</b>  | Yes<br>Symbol (fish and tree)  |
| <b>Special marking (ADR):</b>   | Symbol (fish and tree)   |
| <b>14.6 Special precautions for user</b>  | Warning: Miscellaneous hazardous substances and articles.  |
| <b>hazard identification number:</b>  | 90   |
| <b>EMS Number:</b>  | F-A,S-F  |
| <b>Stowage Category</b>   | A  |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b>               | Not applicable.  |
| <b>Transport/Additional information:</b>  |  |
| <b>ADR</b>  |  |
| <b>Limited quantities (LQ)</b>  | 5L   |
| <b>Excepted quantities (EQ)</b>   | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml   |
| <b>Transport category</b>   | 3  |
| <b>Tunnel restriction code</b>  | (-)  |
| <b>IMDG</b>   |  |
| <b>Limited quantities (LQ)</b>  | 5L   |
| <b>Excepted quantities (EQ)</b>   | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml   |
| <b>UN "Model Regulation":</b>   | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) (NUMBER AVERAGE MOLECULAR WEIGHT $\leq 700$ ))), 9, III |

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## 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

|   |
|---|
| <b>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b> |
|---|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|                                  |
|----------------------------------|
| <b>REGULATION (EU) 2019/1148</b> |
|----------------------------------|

|   |
|---|
| <b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b> |
|---|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|  |
|--|
| <b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b> |
|--|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

#### National regulations

#### Other regulations, limitations and prohibition ordinances

APME document: "Epoxy resins and curing agents: Toxicology, working safety, environment."

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

## SECTION 16: Other information

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

#### Relevant phrases

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- 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.
- H372 Causes 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.
- EUH071 Corrosive to the respiratory tract.
- EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

**Department issuing data specification sheet:** Product Safety department / EHS

**Version number of previous version:** 6

#### 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)
- 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. 1B: Skin corrosion/irritation – Category 1B
- 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: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – 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