

Safety data sheet

according to Regulation (EC) No. 1907/2006 as amended from
time to time

Printing date 17.01.2023



Version-No. 4 (replaces version 3)

Revision: 17.01.2023

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 842.0**
- UFI: 7QG0-T02R-200J-VJ9X
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional users only.
- **Application of the substance / the mixture** Primer
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KLEIBERIT SE & Co. KG
Max-Becker-Str. 4
D - 76356 Weingarten / Baden
Germany
- **Further information obtainable from:**
phone: +49 (0) 7244 62-0
FAX: +49 (0) 7244 700-0
E-Mail: hse@kleiberit.com
- **1.4. Emergency telephone number:**
+44 1235 239670 European regional number (European languages)
112 Emergency telephone number for Malta
543 22 22 Icelandic University Hospital

SECTION 2: Hazards identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- **2.2. Label elements**
- **Hazard pictograms**
 
GHS05 GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**
1-Octyl-2-pyrrolidone
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.

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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.

- **Additional information:**

Contains maleic anhydride. May produce an allergic reaction.

- **2.3. Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Determination of endocrine-disrupting properties**

78-93-3 2-butanone: List II

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

| Registry-No's | Identification / Classification GHS-CLP | % |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 2687-94-7 Reg.nr.: 01-2119446675-30-XXXX 01-0000015335-74-xxxx | 1-Octyl-2-pyrrolidone Skin Corr. 1B, H314; Aquatic Chronic 2, H411 | 30-40% |
| CAS: 108-32-7 Reg.nr.: 01-2119537232-48-XXXX | propylene carbonate Eye Irrit. 2, H319 | 30-40% |
| CAS: 78-93-3 Reg.nr.: 02-2119752535-35-XXXX 01-2119457290-43-XXXX | 2-butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | <1% |
| CAS: 108-31-6 | maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 % | <0.001% |

- **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:** Immediately remove any clothing soiled by the product.

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Call for a doctor immediately.

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Rinse out mouth and then drink plenty of water.

- **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.

- **5.2. Special hazards arising from the substance or mixture** No further relevant information available.

- **5.3. Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

- **6.2. Environmental precautions:**

Do not allow to enter surface or ground water.

Inform respective authorities in case of seepage into water course 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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

- **6.4. Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1. Precautions for safe handling**

Appropriate regular employee training.

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

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

Use at room temperature

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

Ventilation: not less than 5 -15 air exchanges per hour.

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

- **7.2. Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.

- **Information about storage in one common storage facility:** Observe the national regulations.

- **Further information about storage conditions:** None.

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Trade name / Article-No: KLEIBERIT 842.0*(Contd. of page 3)*· **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:**· **DNELs****2687-94-7 1-Octyl-2-pyrrolidone**

Dermal DNEL long term 2.5 mg/kg (human being)

Inhalative DNEL long term 17.45 mg/m³ (human being)**108-32-7 propylene carbonate**

Dermal DNEL long term 20 mg/kg (human being)

Inhalative DNEL long term 70.5 mg/m³ (human being)**78-93-3 2-butanone**

Dermal DNEL long term 1,161 mg/kg (human being)

Inhalative DNEL long term 600 mg/m³ (human being)**108-31-6 maleic anhydride**Inhalative DNEL short term 0.2 mg/m³ (human being)DNEL long term 0.081 mg/m³ (human being)· **PNECs****2687-94-7 1-Octyl-2-pyrrolidone**

PNEC- Freshwater 0.091 mg/l (x00)

PNEC-seawater 0.0091 mg/l (x00)

PNEC-Freshwater sediment 3.14 mg/kg (x00)

PNEC-Seawater sediment 0.314 mg/kg (x00)

PNEC-soil 0.164 mg/kg (x00)

PNEC-wastewater treatment plant 170 mg/l (x00)

108-32-7 propylene carbonate

PNEC- Freshwater 0.9 mg/l (not specified)

PNEC-seawater 0.09 mg/l (not specified)

PNEC-periodic release 9 mg/l (not specified)

PNEC-soil 0.81 mg/kg (not specified)

PNEC-wastewater treatment plant 7,400 mg/l (not specified)

78-93-3 2-butanone

PNEC- Freshwater 55.8 mg/l (not specified)

PNEC-seawater 55.8 mg/l (not specified)

PNEC-Freshwater sediment 284.7 mg/kg (not specified)

PNEC-Seawater sediment 284.7 mg/kg (not specified)

PNEC-soil 22.5 mg/kg (not specified)

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PNEC-wastewater treatment plant 709 mg/l (not specified)

108-31-6 maleic anhydride

PNEC- Freshwater 0.038 mg/l (not specified)
 PNEC-seawater 0.0038 mg/l (not specified)
 PNEC-Freshwater sediment 0.296 mg/kg (not specified)
 PNEC-Seawater sediment 0.0296 mg/kg (not specified)
 PNEC-soil 0.037 mg/kg (not specified)
 PNEC-wastewater treatment plant 44.6 mg/l (not specified)

· **Ingredients with biological limit values:****78-93-3 2-butanone**

BGW (Germany) 2 mg/l
 Untersuchungsmaterial: Urin
 Probennahmezeitpunkt: Expositionsende bzw. Schichtende
 Parameter: 2-Butanon

· **CAS No. Designation of material % Type Value Unit****108-32-7 propylene carbonate**

AGW (Germany) Long-term value: 8.5 mg/m³, 2 ppm
 1(I);DFG, Y, 11

78-93-3 2-butanone

IOELV (INT) Short-term value: 900 mg/m³, 300 ppm
 Long-term value: 600 mg/m³, 200 ppm
 AGW (Germany) Long-term value: 600 mg/m³, 200 ppm
 1(I);DFG, EU, H, Y

108-31-6 maleic anhydride

AGW (Germany) Long-term value: 0.081 mg/m³, 0.02 ppm
 1;=2.5=(I);DFG, Sah, Y, 11

· **8.2. Exposure controls**

limit the exposure to:

8 hours

· **Appropriate engineering controls** No further data; see item 7.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not necessary if room is well-ventilated.· **Hand protection** Protective gloves· **Material of gloves** B Polyethylenylon: Barrier™ (0,062 mm)· **Eye/face protection** Face protection· **Body protection:** Protective work clothing*(Contd. on page 6)*

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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: | Yellowish |
| · Odour: | Fruit-like |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | >200 °C |
| · Flammability | Not applicable. |
| · Lower and upper explosion limit | |
| · Lower: | 0.9 Vol % |
| · Upper: | 8 Vol % |
| · Flash point: | 65 °C |
| · Ignition temperature: | 370 °C |
| · Decomposition temperature: | Not determined. |
| · pH at 20 °C | 8 |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |
| · Dynamic at 20 °C: | ca. 15 mPas Brookfield (1 / 20 rpm) |
| · 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: | ca. 1.06 g/cm ³ |
| · 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. | |
| · Auto-ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product does not present an explosion hazard. |
| · 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 | Void |
| · Flammable solids | Void |

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| | |
|--------------------------------------------------------------------------------|------|
| · 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 |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **10.1. Reactivity**
see item 10.3
No further relevant information available.
- **10.2. Chemical stability** Stable when stored and used properly.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used 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:** No dangerous decomposition products known.

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 relevant for classification:**

2687-94-7 1-Octyl-2-pyrrolidone

| | | |
|--------|------------------|---------------------------------------------|
| Oral | LD ₅₀ | 2,050 mg/kg (rat) |
| Dermal | LD ₅₀ | >2,000 mg/kg (rabbit) >4,000 mg/kg (rat) |

108-32-7 propylene carbonate

| | | |
|--------|------------------|-----------------------|
| Oral | LD ₅₀ | 33,520 mg/kg (rat) |
| Dermal | LD ₅₀ | >2,000 mg/kg (rabbit) |

78-93-3 2-butanone

| | | |
|------------|-----------------------|--------------------|
| Oral | LD ₅₀ | >2,193 mg/kg (rat) |
| Dermal | LD ₅₀ | >5,000 mg/kg (rbt) |
| Inhalative | LC ₅₀ /4 h | 34 mg/l (rat) |
| | LC ₅₀ /4 h | >5,000 ppm (rat) |

108-31-6 maleic anhydride

| | | |
|--------|------------------|----------------------|
| Oral | LD ₅₀ | 1,090 mg/kg (rat) |
| Dermal | LD ₅₀ | 2,620 mg/kg (rabbit) |

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.

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- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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**

78-93-3 2-butanone: List II

SECTION 12: Ecological information

- **12.1. Toxicity**
- **Aquatic toxicity:**

2687-94-7 1-Octyl-2-pyrrolidone

LC₅₀ >12.8 mg / l / 96h (fish)EC₅₀ 12.2 mg / l / 48h (water flea - daphnia)EC₅₀ 19 mg / l / 72h (algae)

108-32-7 propylene carbonate

LC₅₀ >1,000 mg / l / 96h (fish)EC₅₀ >1,000 mg / l / 48h (water flea - daphnia)EC₅₀ >900 mg / l / 72h (algae)

78-93-3 2-butanone

LC₅₀ 2,990 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 308 mg / l / 48h (water flea - daphnia)EC₅₀ 1,972 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)

108-31-6 maleic anhydride

LC₅₀ 75 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 42.81 mg / l / 48h (water flea - daphnia)EC₅₀ 74.32 mg / l / 72h (green algae - Desmodesmus 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.
- **12.5. Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.6. Other adverse effects**
- **Remark:** Harmful to fish

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Trade name / Article-No: KLEIBERIT 842.0*(Contd. of page 8)*· **Behaviour in sewage processing plants:**· **Remark:**

At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected.

· **Additional ecological information:**· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Danger to drinking water if even small quantities leak into the ground.
 Do not allow product to reach sewage system or any water course.

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 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

· **Uncleaned packaging:**· **Recommendation:**

Non contaminated packagings may be recycled.
 Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.

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

UN3267

· **14.2. UN proper shipping name**· **DOT**

Corrosive liquid, basic, organic, n.o.s. (1-Octyl-2-pyrrolidone)

· **ADR**

3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1-Octyl-2-pyrrolidone), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1-Octyl-2-pyrrolidone), MARINE POLLUTANT

· **IATA**

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1-Octyl-2-pyrrolidone)

· **14.3. Transport hazard class(es)**· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4. Packing group**· **ADR, IMDG, IATA**

II

· **14.5. Environmental hazards:**

Product contains environmentally hazardous substances:
 1-Octyl-2-pyrrolidone

· **Marine pollutant:**

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6. Special precautions for user**

Warning: Corrosive substances.

· **Hazard identification number (Kemler code):**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

(SGG18) Alkalis

· **Stowage Category**

B

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| | |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · Stowage Code | SW2 Clear of living quarters. |
| · Segregation Code | SG35 Stow "separated from" SGG1-acids |
| · 14.7. Maritime transport in bulk according to IMO instruments | Not applicable. |
| <hr/> | |
| · ADR | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Transport category | 2 |
| · Tunnel restriction code | E |
| <hr/> | |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |

SECTION 15: Regulatory information

· **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
See position no 2 - Hazards Identification

· **Directive 2012/18/EU - Seveso-III:**

· **Named dangerous substances - ANNEX I** None of the ingredients is included.

· **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 - REACH, ANNEX XVII** Conditions of restriction: 3

· **Regulation (EU) No 649/2012**

None of the ingredients is listed.

· **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.

· **Regulation (EC) No 273/2004 on drug precursors**

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· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

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- **National regulations:**
- **D: Waterhazard class** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations:** Restricted to professional users.
- **VOC - 2010/75/EU [g/L]:** <25.0 g/l
- **VOC - 2010/75/EU [%]:** <2.00 %
- **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**

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH071 Corrosive to the respiratory tract.

· **Department issuing SDS:** Safety & Environment· **Version number of previous version:** 3· **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
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- 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