

## Safety data sheet

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

Printing date 06.04.2023


Version-No. 3 (replaces version 2)

Revision: 06.04.2023

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 842.1**
- UFI: 9TG0-90S4-D001-JVW0
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**  
For professional users only.
- **Application of the substance / the mixture** Priming
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KLEIBERIT SE & Co. KG  
Max-Becker-Str. 4  
76356 Weingarten  
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**  
Acute Tox. 4 H302 Harmful if swallowed.  
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.
- **2.2. Label elements**
- **Hazard pictograms**  
  
GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
1-Butylpyrrolidin-2-on  
maleic anhydride  
methanol
- **Hazard statements**  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

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- **Precautionary statements**

- P280 Wear protective gloves / eye protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

- **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: 3470-98-2 Reg.nr.: 01-2120062728-48-XXXX	1-Butylpyrrolidin-2-on Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	20-30%
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	<2%
CAS: 67-56-1 Reg.nr.: 01-2119433307-44-XXXX	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	<0.5%
CAS: 80-05-7	4,4'-isopropylidenediphenol (bisphenol A) Repr. 1B, H360F; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1, H317; STOT SE 3, H335	≥0.025-<0.1%
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:**

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; consult doctor in case of complaints.

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- **After skin contact:**  
Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Call for a doctor immediately.
- **4.2. Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3. Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1. Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2. Special hazards arising from the substance or mixture** 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.  
Keep away from ignition sources.
- **6.2. Environmental precautions:** No special measures required.
- **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.  
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 disposal information.

### SECTION 7: Handling and storage

- **7.1. Precautions for safe handling**  
Handle the substance preferably in closed system  
Enclosure or extractor facilities are required.  
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.  
Spraying: in vented cabin with laminar air flow  
Wear protective gloves/protective clothing/eye protection/face protection.  
Application temperature is not higher than 20°C above the surrounding temperature  
additional to professional application with multiple and/or significant contact  
limit the exposure to 4 hours  
Wear suitable protective gloves and protective goggles /face protection during work.  
Clean the pipe before decoupling
- **General protective and hygienic measures:** Keep good industrial hygiene.
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.

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- **Information about storage in one common storage facility:** Observe the national regulations.
- **Further information about storage conditions:** Store only outside or in explosion proof rooms.
- **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**

#### **3470-98-2 1-Butylpyrrolidin-2-on**

Dermal DNEL long term 10 mg/kg (human being)  
Inhalative DNEL long term 24.1 mg/m<sup>3</sup> (human being)

#### **78-93-3 2-butanone**

Dermal DNEL long term 1,161 mg/kg (human being)  
Inhalative DNEL long term 600 mg/m<sup>3</sup> (human being)

#### **67-56-1 methanol**

Dermal DNEL short term 40 mg/kg (human being)  
DNEL long term 40 mg/kg (human being)  
Inhalative DNEL short term 260 mg/m<sup>3</sup> (human being)  
DNEL long term 260 mg/m<sup>3</sup> (human being)

#### **80-05-7 4,4'-isopropylidenediphenol (bisphenol A)**

Dermal DNEL short term 0.031 mg/kg (human being)  
DNEL long term 0.031 mg/kg (human being)  
Inhalative DNEL short term 2 mg/m<sup>3</sup> (human being)  
DNEL long term 2 mg/m<sup>3</sup> (human being)

- **PNECs**

#### **dibasic esters**

PNEC- Freshwater	0.018 mg/l (not specified)
PNEC-seawater	0.0018 mg/l (not specified)
PNEC-Freshwater sediment	0.16 mg/kg (not specified)
PNEC-Seawater sediment	0.016 mg/kg (not specified)
PNEC-soil	0.09 mg/kg (not specified)
PNEC-wastewater treatment plant	10 mg/l (not specified)

#### **3470-98-2 1-Butylpyrrolidin-2-on**

PNEC- Freshwater	4 mg/l (not specified)
PNEC-seawater	0.4 mg/l (not specified)
PNEC-periodic release	1 mg/l (not specified)
PNEC-Freshwater sediment	29.6 mg/kg (not specified)
PNEC-Seawater sediment	2.96 mg/kg (not specified)
PNEC-soil	3.57 mg/kg (not specified)
PNEC-wastewater treatment plant	30.62 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)

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

**67-56-1 methanol**

PNEC- Freshwater 154 mg/l (not specified)  
 PNEC-seawater 15.4 mg/l (not specified)  
 PNEC-soil 23.5 mg/kg (not specified)  
 PNEC-wastewater treatment plant 100 mg/l (not specified)

**80-05-7 4,4'-isopropylidenediphenol (bisphenol A)**

PNEC- Freshwater 0.018 mg/l (x00)  
 PNEC-seawater 0.016 mg/l (x00)  
 PNEC-Freshwater sediment 2.2 mg/kg (x00)  
 PNEC-Seawater sediment 0.44 mg/kg (x00)  
 PNEC-soil 3.7 mg/kg (x00)  
 PNEC-wastewater treatment plant 320 mg/l (x00)

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

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

**67-56-1 methanol**

BGW (Germany) 15 mg/l  
 Untersuchungsmaterial: Urin  
 Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren  
 vorangegangenen Schichten, Expositionsende bzw. Schichtende  
 Parameter: Methanol

CAS No.	Designation of material	%	Type	Value	Unit
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**78-93-3 2-butanone**

IOELV (INT)	Short-term value: 900 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm				
AGW (Germany)	Long-term value: 600 mg/m <sup>3</sup> , 200 ppm 1(I);DFG, EU, H, Y				

**67-56-1 methanol**

IOELV (INT)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin				
AGW (Germany)	Long-term value: 130 mg/m <sup>3</sup> , 100 ppm 2(II);DFG, EU, H, Y				

**108-31-6 maleic anhydride**

AGW (Germany)	Long-term value: 0.081 mg/m <sup>3</sup> , 0.02 ppm 1;=2.5=(I);DFG, Sah, Y, 11				
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**8.2. Exposure controls**

limit the exposure to:  
8 hours

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- additional to professional application with multiple and/or significant contact limit the exposure to 4 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.  
At spray application respiratory protection must be worn.  
Filter A/P2 (EN 14387)
- **Hand protection** Protective gloves
- **Material of gloves** B Polyethylenylon: Barrier™ (0,062 mm)
- **Eye/face protection** 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:** Yellow tint
- **Odour:** Weak, characteristic
- **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:** 8.7 Vol %
- **Flash point:** 61 °C
- **Auto-ignition temperature:** 212 °C
- **Decomposition temperature:** Not determined.
- **pH** Not determined.
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic at 20 °C:** ca. 20 mPas
- **Solubility**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 0.4 hPa
- **Density and/or relative density**
- **Density at 20 °C:** ca. 1.05 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.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Change in condition**
- **Evaporation rate** Not determined.

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### 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
· 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

Harmful if swallowed.

#### LD/LC<sub>50</sub> values relevant for classification:

##### dibasic esters

Oral LD<sub>50</sub> >5,000 mg/kg (rat)Dermal LD<sub>50</sub> >2,000 mg/kg (rat)Inhalative LC<sub>50</sub>/4h<sub>(dust,mist)</sub> 21 mg/l (rat)

##### 3470-98-2 1-Butylpyrrolidin-2-on

Oral LD<sub>50</sub> >300-2,000 mg/kg (rat)Dermal LD<sub>50</sub> >2,000 mg/kg (rat)

##### 78-93-3 2-butanone

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

##### 67-56-1 methanol

Oral LD<sub>50</sub> 143 mg/kg (human being)

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		7,300 mg/kg (mouse)
		5,900 mg/kg (rat)
Dermal	LD <sub>50</sub>	20,000 mg/kg (rabbit)
Inhalative	LC <sub>50</sub> /4 h	85 mg/l (rat)

**80-05-7 4,4'-isopropylidenediphenol (bisphenol A)**

Oral	LD <sub>50</sub>	3,250 mg/kg (rat)
Dermal	LD <sub>50</sub>	3,000 mg/kg (rbt)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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:**

**dibasic esters**EC<sub>50</sub> 112-150 mg / l / 48h (water flea - daphnia)**3470-98-2 1-Butylpyrrolidin-2-on**LC<sub>50</sub> >100 mg / l / 96h (Fathead minnow - Pimephales promelas)EC<sub>50</sub> >100 mg / l / 48h (water flea - daphnia)EC<sub>50</sub> >160 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)**78-93-3 2-butanone**LC<sub>50</sub> 2,990 mg / l / 96h (Fathead minnow - Pimephales promelas)EC<sub>50</sub> 308 mg / l / 48h (water flea - daphnia)EC<sub>50</sub> 1,972 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)**67-56-1 methanol**LC<sub>50</sub> 15,500 mg / l / 96h (Bluegill - Lepomis macrochirus)**80-05-7 4,4'-isopropylidenediphenol (bisphenol A)**EC<sub>50</sub> 3.9 mg / l / 48h (water flea - daphnia)

- **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.

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- **12.7 Other adverse effects**
- **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:**  
Not known to be hazardous to water.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**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** Void
- **14.2. UN proper shipping name**
- **DOT, ADR, IMDG, IATA** Void
- **14.3. Transport hazard class(es)**
- **Class** Void
- **14.4. Packing group**
- **ADR, IMDG, IATA** Void
- **14.5. Environmental hazards:** Not applicable.
- **14.6. Special precautions for user** Not applicable.
- **14.7. Maritime transport in bulk according to IMO instruments** Not applicable.

**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.
- **Regulation (EC) No 1907/2006 - REACH, ANNEX XVII** Conditions of restriction: 3, 69
- **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.

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- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

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

78-93-3 2-butanone: 3

108-88-3 toluene: 3

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

78-93-3 2-butanone: 3

108-88-3 toluene: 3

- **National regulations:**

- **D: Waterhazard class** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **Other regulations, limitations and prohibitive regulations:** Restricted to professional users.

- **VOC - 2010/75/EU [g/L]:** 21.7 g/l

- **VOC - 2010/75/EU [%]:** 2.07 %

- **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.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic 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.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H360F May damage fertility.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very 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:** 2

- **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)

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**time to time**

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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. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 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  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Resp. Sens. 1: Respiratory sensitisation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 Repr. 1B: Reproductive toxicity – Category 1B  
 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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