

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

Printing date 26.10.2021

Version number 2

Revision: 26.10.2021

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

- **1.1 Product identifier**
- **Trade name:** **PROTEGOL UR Coating 32-60 PT ca. RAL 9011, Komp.B**
- **Article number:** 206969
- **UFI:** WXKC-UQHG-TG2R-W7MN
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Anticorrosion coating
- **Uses advised against** Restriction under Regulation 1907/2006 (REACH), Annex XVII
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
TIB Chemicals AG  
Muelheimer Str. 16-22  
D-68219 Mannheim/Germany
- **Informing department:**  
PRODUKTSERVICE  
e-mail: produktservice@tib-chemicals.com  
Mo-Fr 9:00 AM – 3:00 PM: Tel.: +49(0)621 8901 710
- **1.4 Emergency telephone number:**  
24 h Tel.: +49(0)621 8901 700 Fax.: +49(0)621 8901 900

### SECTION 2: Hazards identification

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

Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Carc. 2	H351 Suspected of causing cancer. Route of exposure: Inhalation.
STOT SE 3	H335 May cause respiratory irritation.
STOT RE 2	H373 May cause damage to the respiratory system and the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.
- 
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger

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

4,4'-diphenylmethanediisocyanate, isomere, homologue and mixtures  
 diphenylmethane-4,4'-di-isocyanate  
 Isocyanic acid, polymethylenepolyphenylene ester, polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl))  
 diphenylmethane-2,4'-diisocyanate

- **Hazard statements**

H332 Harmful if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer. Route of exposure: Inhalation.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to the respiratory system and the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Contains isocyanates. May produce an allergic reaction.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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**SECTION 3: Composition/information on ingredients**

Two component coating: isocyanate component

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of the substances listed below and harmless substances.

- **Dangerous components:**

CAS: 9016-87-9 EC number: 618-498-9 Index number: 615-005-00-9	4,4'-diphenylmethanediisocyanate, isomere, homologue and mixtures ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50-75%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	diphenylmethane-4,4'-di-isocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	20-50%
CAS: 53862-89-8 EC number: 670-234-1	Isocyanic acid, polymethylenepolyphenylene ester, polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	15-25%
CAS: 5873-54-1 EINECS: 227-534-9 Index number: 615-005-00-9	diphenylmethane-2,4'-diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<2.5%

- **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**

Remove contaminated clothing.

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

- **After inhalation**

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

Supply fresh air and call for doctor for safety reasons.

- **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

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- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide (CO)  
- Nitrogen oxides (NO<sub>x</sub>)  
Formation of poisonous gases during heating or in fires.  
Isocyanate gas  
Traces of hydrogen cyanide
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Put on breathing apparatus.
- **6.2 Environmental precautions:** Do not allow to enter the ground/soil.
- **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.  
Ensure adequate ventilation.  
Absorb with liquid-binding material. After a waiting period of approx. 1 hour put it in an open container. Do not close the container, because the formation of carbon dioxide - building up pressure - risk of bursting!  
Disposal according item 13 after a storage time of a few days.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep breathing equipment ready.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class 10**
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical systems:**  
No further data; see item 7.
- **Components 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.

#### · DNELs

#### 101-68-8 diphenylmethane-4,4'-di-isocyanate

Oral	Consumer: acute systemic effects	20 mg/kg bw/d (human (calculated))
Dermal	Consumer: acute local effects	17.2 mg/cm <sup>2</sup> (human (calculated))
	Consumer: acute systemic effects	25 mg/kg bw/d (human (calculated))
Inhalative	Worker: acute local effect	28.7 mg/cm <sup>2</sup> (human (calculated))
	Worker: acute systemic effects	50 mg/kg bw/d (human (calculated))
	Consumer: long-term local effects	0.025 mg/m <sup>3</sup> (human (calculated))
	Consumer: long-term systemic effects	0.025 mg/m <sup>3</sup> (human (calculated))
	Consumer: acute local effects	0.05 mg/m <sup>3</sup> (human (calculated))
	Consumer: acute systemic effects	0.05 mg/m <sup>3</sup> (human (calculated))
Worker: long-term local effects	Worker: long-term local effects	0.05 mg/m <sup>3</sup> (human (calculated))
	Worker: long-term systemic effects	0.05 mg/m <sup>3</sup> (human (calculated))

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	Worker: acute systemic effects	0.1 mg/m <sup>3</sup> (human (calculated))
<b>5873-54-1 diphenylmethane-2,4'-diisocyanate</b>		
Oral	Consumer: acute systemic effects	20 mg/kg bw/d (human (calculated))
Dermal	Consumer: acute local effects	17.2 mg/cm <sup>2</sup> (human (calculated))
	Consumer: acute systemic effects	25 mg/kg bw/d (human (calculated))
Inhalative	Worker: acute local effect	28.7 mg/cm <sup>2</sup> (human (calculated))
	Worker: acute systemic effects	50 mg/kg bw/d (human (calculated))
	Consumer: long-term local effects	0.025 mg/m <sup>3</sup> (human (calculated))
	Consumer: long-term systemic effects	0.025 mg/m <sup>3</sup> (human (calculated))
	Consumer: acute local effects	0.05 mg/m <sup>3</sup> (human (calculated))
	Consumer: acute systemic effects	0.05 mg/m <sup>3</sup> (human (calculated))
	Worker: long-term local effects	0.05 mg/m <sup>3</sup> (human (calculated))
	Worker: long-term systemic effects	0.05 mg/m <sup>3</sup> (human (calculated))
	Worker: acute local effect	0.1 mg/m <sup>3</sup> (human (calculated))
	Worker: acute systemic effects	0.1 mg/m <sup>3</sup> (human (calculated))

· **PNECs**

**101-68-8 diphenylmethane-4,4'-di-isocyanate**

Freshwater ecosystem: Freshwater organisms	1,000 µg/l (Freshwater organisms)
Marine ecosystem: Marine water organisms	100 µg/l (Marine water organisms)
Sewage treatment plant (STP): Microorganisms	1 mg/l (Microorganisms)
Terrestrial ecosystem: Agricultural soil organisms	1 mg/kg soil dw (Agricultural soil organisms)

· **Additional information:**

The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

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

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- **Protection of hands:**  
Protective gloves.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye 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**
**· Appearance:**

Form:	Fluid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value:	Not determined.
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**· Change in condition**

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined

Flash point:	>100 °C
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Inflammability (solid, gaseous)	Not applicable.
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Decomposition temperature:	Not determined.
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Self-inflammability:	Product is not selfigniting.
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Explosive properties:	Product is not explosive.
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**· Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	Not determined.
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· <b>Density:</b>	not applicable Not determined
· <b>Density [23°C]:</b>	not determined 1.2 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined. Not determined.
· <b>Vapour density</b> · <b>Evaporation rate</b>	Not determined. Not determined.
· <b>Solubility in / Miscibility with Water:</b>	react with water with formation of carbon dioxide
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <b>dynamic:</b> <b>dynamisch [23°C]</b> <b>dynamic [25°C]:</b> <b>kinematic:</b>	Not determined. Not determined. 1300 mPa*s Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
To avoid thermal decomposition do not overheat.  
Temperatures > °C
- **10.3 Possibility of hazardous reactions**  
Exothermic reaction with amines and alcohols.  
Reacts with water forming carbon dioxide. In closed containers build up pressure - risk of bursting!
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (prussic acid)  
Isocyanate

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**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**

- **Acute toxicity**

Harmful if inhaled.

- **LD/LC50 values that are relevant for classification:**

<b>9016-87-9 4,4'-diphenylmethanediisocyanate, isomere, homologue and mixtures</b>		
Oral	LD50	>15,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit) (Acute Dermal Toxicity)
Inhalative	LC50/4 h	0.31 mg/l (rat) (Acute Inhalation Toxicity)
<b>101-68-8 diphenylmethane-4,4'-diisocyanate</b>		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.49 mg/l (rat)
<b>5873-54-1 diphenylmethane-2,4'-diisocyanate</b>		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LC50/4 h	0.387 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation**

Causes serious eye irritation.

- **Respiratory or skin sensitisation**

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

May cause an allergic skin reaction.

- **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**

Suspected of causing cancer. Route of exposure: Inhalation.

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

- **STOT-single exposure**

May cause respiratory irritation.

- **STOT-repeated exposure**

May cause damage to the respiratory system and the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

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**SECTION 12: Ecological information**
**· 12.1 Toxicity**

<b>· Aquatic toxicity:</b>	
<b>9016-87-9 4,4'-diphenylmethanediisocyanate, isomere, homologe and mixtures</b>	
EC50/24 h	>1,000 mg/l (Daphnia magna (water flea)) (Daphnia sp. Acute Immobilisation Test)
LC50/96 h	>1,000 mg/l (Danio rerio (zebrafish)) (Fish, Acute Toxicity Test)
EC50/3 h	>100 mg/l (activated sludge) (Activated Sludge, Respiration Inhibition Test)
<b>101-68-8 diphenylmethane-4,4'-di-isocyanate</b>	
EC50/48 h	>1,000 mg/l (Daphnia magna (water flea))
LC50/96 h	>1,000 mg/l (Brachydanio rerio (zebrafish))
<b>5873-54-1 diphenylmethane-2,4'-diisocyanate</b>	
NOEC/21d	>10 mg/l (Daphnia magna (water flea)) (Daphnia sp. Acute Immobilisation Test)
EC50/24 h	>1,000 mg/l (Daphnia magna (water flea)) (Daphnia sp. Acute Immobilisation Test)
LC50/96 h	>1,000 mg/l (Danio rerio (zebrafish)) (Fish, Acute Toxicity Test)
EC50/3 h	>100 mg/l (activated sludge) (Activated Sludge, Respiration Inhibition Test)

**· Terrestrial toxicity:**

<b>5873-54-1 diphenylmethane-2,4'-diisocyanate</b>	
NOEC	>1,000 mg/kg soil dw (Avenia sativa (Hafer)) (Terrestrial Plant Test: Seedling Emergence) Time of exposure 14 days
	>1,000 mg/kg soil dw (Eisenia fetida (Regenwürmer)) (OECD 207) Time of exposure 14 days
	>1,000 mg/kg soil dw (Lactuca sativa (Kopfsalat)) (Terrestrial Plant Test: Seedling Emergence) Time of exposure 14 days

**· 12.2 Persistence and degradability** No further relevant information available.

**· 12.3 Bioaccumulative potential** No further relevant information available.

**· 12.4 Mobility in soil** No further relevant information available.

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

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

**· 12.5 Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

**· 12.6 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must be specially treated under adherence to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· <b>14.1 UN-Number</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.2 UN proper shipping name</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **EU regulations/legislation**
  - **Regulation (EC) No 1907/2006 (REACH), Annex XIV** not applicable
  - **Regulation (EC) No 1907/2006 (REACH), Annex XVII**
- Restrictions must be observed for:  
 dangerous liquid substances or mixtures (no. 3)  
 Methylene-diphenyl diisocyanate (MDI) (no. 56)

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII**  
Conditions of restriction: 3, 56a, 56b, 74

**· 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.

**· National regulations**
**· Decree to be applied in case of technical fault:**

Class	Share in %
I	80.0

**· Water hazard class:**

Water hazard class 1 (German Regulation) (Self-classification) : slightly hazardous for water

**· Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

The information contained herein 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.

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

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

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vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

EU