

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

Printing date 24.05.2022

Version number 4 (replaces version 3)

Revision: 24.05.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****· 1.1 Product identifier****· Trade name: REDOCOL Kantomelt PUR natur, Block****· 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** Hot melt adhesive**· 1.3 Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

Ostermann UK Ltd.  
Stonebridge Cross Business Park  
Unit 104 Poynton Way  
Droitwich  
WR9 0LW  
United Kingdom  
Phone (UK): +44 (0) 1905 793 550  
Phone (Ireland): +44 (0) 1905 793 552  
Fax: +44 (0) 1905 793 559

**· Informing department:**

Customer Service:  
Phone: +49 (0) 2871 / 2550-0

**· 1.4 Emergency telephone number:**

Gift-Informationszentrum Nord, Göttingen  
Poison Information Center, Göttingen  
Tel.: +49 (0)551 19240  
(German and English only)

**SECTION 2: Hazards identification****· 2.1 Classification of the substance or mixture****· Classification according to Regulation (EC) No 1272/2008**

health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.



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

**· 2.2 Label elements****· Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

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- **Hazard pictograms**



GHS08

- **Signal word** Danger

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

diphenylmethane-4,4'-di-isocyanate

diphenylmethane-2,4'-diisocyanate

- **Hazard statements**

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

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

- **Precautionary statements**

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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

- **Additional information:**

As from 24 August 2023 adequate training is required before industrial or professional use.

- **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:** PU adhesive: Polyurethane prepolymer

- **Dangerous components:**

CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47-X	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, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5% Resp. Sens. 1; H334: C ≥ 0.1% STOT SE 3; H335: C ≥ 5%	≥ 2.5 - < 5%
CAS: 5873-54-1 EINECS: 227-534-9 Reg.nr.: 01-2119480143-45-X	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, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5% Resp. Sens. 1; H334: C ≥ 0.1% STOT SE 3; H335: C ≥ 5%	≥ 0.1 - < 1%

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- **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 or oxygen; call for doctor.

Delayed effects possible after inhalation.

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

##### · **After skin contact**

If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see physician for removal of adhering material and treatment of burn.

##### · **After eye contact** Cool with water after contact with hot melt, go see doctor.

##### · **After swallowing**

Rinse out mouth.

Do not induce vomiting.

Consult doctor.

#### · 4.2 Most important symptoms and effects, both acute and delayed

Asthma attacks

Allergic reactions

##### · **After inhalation:**

irritation of respiratory system.

coughing

Breathing difficulty

##### · **After skin contact:** rash

#### · 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**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

##### · **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Formation of toxic gases is possible during heating or in case of fire.

During incomplete combustion carbon monoxide can be formed.

#### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

#### · 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

Allow to solidify. Collect mechanically.

Dispose of contaminated material as waste according to section 13.

#### · 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**  
Avoid contact with eyes, skin and clothes.  
Do not eat, drink or smoke while working.  
Ensure good ventilation/exhaustion at the workplace.
  - **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and containers:**  
Store only in the original container.  
Keep container tightly closed.  
Protect from moisture.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**  
Store container in a well ventilated position.  
Recommended storage temperature: 5 - 25°C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
  - **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit

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

WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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OEL (Ireland)	Long-term value: 0.005 ppm as -NCO; Sens
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#### 5873-54-1 diphenylmethane-2,4'-diisocyanate

WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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OEL (Ireland)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> as -NCO; Sens.
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#### · DNELs

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

Inhalative	DNEL (worker, short-term, local)	0.1 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	0.025 mg/m <sup>3</sup> (human)

#### 5873-54-1 diphenylmethane-2,4'-diisocyanate

Oral	DNEL (consumer, short-term, systemic)	20 mg/kg bw/day (human)
Dermal	DNEL (worker, short-term, systemic)	50 mg/kg bw/day (human)
	DNEL (consumer, short-term, systemic)	25 mg/kg bw/day (human)
	DNEL (worker, short-term, local)	28.7 mg/kg bw/day (human)

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Inhalative	DNEL (consumer, short-term, local)	17.2 mg/kg bw/day (human)
	DNEL (worker, short-term, systemic)	0.1 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, systemic)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, systemic)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	0.025 mg/m <sup>3</sup> (human)
	DNEL (worker, short-term, local)	0.1 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	0.025 mg/m <sup>3</sup> (human)

· **PNECs**

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

PNEC aqua (freshwater)	0.0037 mg/L (.)
PNEC aqua (marine water)	0.00037 mg/L (.)
PNEC soil	1 mg/kg soil dw (.)
PNEC sediment (freshwater)	11.7 mg/kg sedim. dw (.)
PNEC sediment (marine water)	1.17 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.037 mg/L (.)

**5873-54-1 diphenylmethane-2,4'-diisocyanate**

PNEC aqua (freshwater)	1 mg/L (.)
PNEC aqua (marine water)	0.1 mg/L (.)
PNEC STP	1 mg/L (.)
PNEC soil	1 mg/kg soil dw (.)
PNEC aqua (intermittent releases)	10 mg/L (.)

· **Ingredients with biological limit values:**

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

BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
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**5873-54-1 diphenylmethane-2,4'-diisocyanate**

BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
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· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls**

Draw off vapors and fumes directly at the point of generation or release.  
In the case of regular work use bench-mounted extraction equipment.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

Do not eat, drink or smoke while working.  
Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

Approved dust respirators must be used for dusty conditions or if dust levels exceed established standards.

· **Hand protection** Heat protection gloves

· **Material of gloves**

Heat protection gloves  
Nitrile rubber, NBR

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- **Penetration time of glove material**  
With solid dry substances permeation is not to be expected. Therefore the breakthrough-time for this protective glove has not been measured.  
In case of a layer thickness of 0.4 mm the penetration time is longer than 480 minutes.
- **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

- |   |                                 |
|---|---------------------------------|
| · <b>Colour:</b>  | Light beige                     |
| · <b>Odour:</b>   | Characteristic                  |
| · <b>Odour threshold:</b>   | Not determined.                 |
| · <b>Melting point/freezing point:</b>                            | Not determined                  |
| · <b>Boiling point or initial boiling point and boiling range</b> | Not determined                  |
| · <b>Flammability</b>   | Not determined.                 |
| · <b>Flash point:</b>   | 228 °C                          |
| · <b>Ignition temperature:</b>                                    | > 500 °C                        |
| · <b>Decomposition temperature:</b>                               | Not determined.                 |
| · <b>SADT</b>   |                                 |
| · <b>pH</b>   | Not applicable.                 |
| · <b>Viscosity:</b>   |                                 |
| · <b>Kinematic viscosity</b>                                      | Not applicable.                 |
| · <b>dynamic at 150 °C:</b>                                       | 30000 - 45000 mPas (Brookfield) |
| · <b>Solubility</b>   |                                 |
| · <b>Water:</b>   | Insoluble                       |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.                 |
| · <b>Vapour pressure:</b>   | Not applicable.                 |
| · <b>Density and/or relative density</b>                          |                                 |
| · <b>Density at 20 °C</b>   | 1.25 - 1.30 g/cm <sup>3</sup>   |

#### · 9.2 Other information

- |  |                           |
|--|---------------------------|
| · <b>Appearance:</b>   |                           |
| · <b>Form:</b>   | Granulate                 |
| · <b>Important information on protection of health and environment, and on safety.</b> |                           |
| · <b>Explosive properties:</b>   | Product is not explosive. |
| · <b>VOC EU</b>  | 0 %                       |
| · <b>VOC EU</b>  |                           |
| · <b>Solids content:</b>   | 100.0 %                   |
| · <b>Change in condition</b>   |                           |
| · <b>Fusion temperature / range:</b>   | 82 °C                     |

#### · Information with regard to physical hazard classes

- |  |      |
|--|------|
| · <b>Explosives</b>                            | Void |
| · <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 |

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· <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** Reacts with water: Pressure built up in closed vessel (CO<sub>2</sub>).
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!
- **10.4 Conditions to avoid** Protect from moisture.
- **10.5 Incompatible materials:**  
Water  
Alcohols  
Amines
- **10.6 Hazardous decomposition products:** At higher temperatures isocyanate may be released.

### 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:**

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

Oral	LDL0	> 4,600 mg/kg (rat)
Dermal	LD50	> 9,400 mg/kg (rabbit)
Inhalative	LC50	0.368 mg/l/4h (rat) (OECD 403) Dust or Mist

#### 5873-54-1 diphenylmethane-2,4'-diisocyanate

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 9,400 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	0.49 mg/l/4h (rat) (OECD 403) Dust or Mist

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Suspected of causing cancer.
- **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.

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· **Additional toxicological information:**

· **Repeated dose toxicity**

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

Inhalative	NOAEC (2y)	0.19 mg/m <sup>3</sup> (rat) (OECD 453) Dust or Mist
	LOAEC (2y)	0.23 mg/m <sup>3</sup> (rat) Dust or Mist

**5873-54-1 diphenylmethane-2,4'-diisocyanate**

Inhalative	NOAEC (2y)	0.19 mg/m <sup>3</sup> (rat)
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· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 2

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

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

EC50 (static)	> 1,000 mg/l/24h (Daphnia magna) (OECD 202)
EC50 (static)	9 mg/l/48h (Daphnia magna) (OECD 202)
EC50 (static)	> 100 mg/l/72h (Desmodesmus subspicatus) (OECD 201)
LC0 (static)	> 100 mg/l/96h (Danio rerio) (OECD 203)

**5873-54-1 diphenylmethane-2,4'-diisocyanate**

EC50 (static)	129.7 mg/l/24h (Daphnia magna) (OECD 202)
EC0	1,620 mg/l/72h (Desmodesmus subspicatus) (OECD 201)
LC0	> 3,000 mg/l/96h (Oryzias latipes)

· **12.2 Persistence and degradability**

Based on previous experience, this product is inert and non-degradable.

· **Other information:** There are no data available about the preparation.· **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**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

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

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

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### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

The waste code numbers mentioned are recommendations based on the probable use of the product.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP7	Carcinogenic

· **Uncleaned packagings:**

· **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings can be used for recycling.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/ADN, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR/ADN, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR/ADN, ADN, IMDG, IATA**  
 · **Class** Void

· **14.4 Packing group**

· **ADR/ADN, 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.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **UN "Model Regulation":**

Void

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Chemical safety assessment**

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

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· **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**

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

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

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

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- 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.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- EUH204 Contains isocyanates. May produce an allergic reaction.

· **Department issuing data specification sheet:**

► **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **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)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- 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

· **\* Data compared to the previous version altered.**