



## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

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

- **1.1 Product identifier**
- **Trade name:** AR-P 3220
- **Article number:** AR-P 3220
- **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**  
Intermediate product for the electronics industry. For industrial and commercial use only.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Allresist GmbH  
Am Biotop 14  
15344 Strausberg  
GERMANY
- 
- **E-Mail:** [info@allresist.de](mailto:info@allresist.de)  
**Tel.:** +49 3341 35 93 0
- **Further information obtainable from:** Sales
- **1.4 Emergency telephone number:**  
Poison center of the Charité Berlin:  
+4930 30686700  
**E-Mail:** [giftnotruf@charite.de](mailto:giftnotruf@charite.de)

### SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

Trade name: AR-P 3220

(Contd. of page 1)

### · Hazard pictograms



GHS02 GHS07

### · Signal word Warning

### · Hazard-determining components of labelling:

2-methoxy-1-methylethyl acetate  
bis[4-(2,3-epoxypropoxy)phenyl]propane

### · Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.

### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

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

### · Dangerous components:

CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	50-100%
CAS: 68510-93-0 EINECS: 270-931-7	Naphthochinondiazid ⚠ Flam. Sol. 1, H228; Self-react. C, H242; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	≥2.5-<10%
CAS: 1143-72-2 EINECS: 214-540-1	2,3,4-trihydroxybenzophenone ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Aquatic Chronic 3, H412	≥0-<2.5%
CAS: 1675-54-3 EINECS: 216-823-5 Reg.nr.: 01-2119456619-26-XXXX	bis[4-(2,3-epoxypropoxy)phenyl]propane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	≥1-<2.5%

(Contd. on page 3)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)



Revision: 15.11.2024

Trade name: AR-P 3220

(Contd. of page 2)

CAS: 1319-77-3  
EINECS: 215-293-2

cresol (mix)

 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330;  Skin Corr. 1B, H314; Eye Dam. 1, H318

&lt;1%

· **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:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist 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>, 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:** No special measures required.

### 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 sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 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**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.

(Contd. on page 4)

GB

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

**Trade name: AR-P 3220**

(Contd. of page 3)

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Recommended storage temperature:** 10-18°C
- **Storage class (TRGS):** 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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral	DNEL Long-term - oral, systemic effects	1.67 mg/kg_bw/day (rat)
Dermal	DNEL Long-term – dermal, systemic effects	153.5 mg/kg_bw/d (rat)
Inhalative	DNEL long-term - inhalation local effects	33 mg/m <sup>3</sup> (rat)
	DNEL Long-term – inhalation, systemic effects	275 mg/m <sup>3</sup> /d (rat)
	DNEL Acute - inhalation, local effects	2,420 mg/m <sup>3</sup> (rat)

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Dermal	DNEL Long-term – dermal, systemic effects	8.33 mg/kg_bw/d (Worker)
	DNEL Acute - dermal systemic effects	8.33 mg/kg bw/day (Worker)
Inhalative	DNEL Long-term – inhalation, systemic effects	12.25 mg/m <sup>3</sup> /d (Worker)
	DNEL Acute inhalation systemic effects	12.25 mg/m <sup>3</sup> (Worker)

· **PNECs**

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC short term, fresh water	0.635 mg/l (Aquatic organisms)
PNEC short term, sea water	0.0635 mg/l (Aquatic organisms)
PNEC short term, sewage plant	100 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	3.29 mg/kg (Aquatic organisms)
PNEC short term soil	0.29 mg/kg (Aquatic organisms)
PNEC short term sea water sediment	0.329 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	6.35 mg/l (Aquatic organisms)

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

PNEC short term, fresh water	0.006 mg/l (Aquatic organisms)
PNEC short term, sea water	0.001 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	0.341 mg/kg (Aquatic organisms)
PNEC short term soil	0.065 mg/kg (Aquatic organisms)
PNEC short term sea water sediment	0.034 mg/kg (Aquatic organisms)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

(Contd. on page 5)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

Trade name: AR-P 3220

(Contd. of page 4)

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

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Hand protection**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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



Protective gloves

- **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/face protection**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Brown

- **Odour:**

Ester-like

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

145 °C

- **Flammability**

Flammable.

- **Lower and upper explosion limit**

- **Lower:**

1.5 Vol %

- **Upper:**

10.8 Vol %

- **Flash point:**

46 °C

- **Auto-ignition temperature:**

315 °C

- **Decomposition temperature:**

Not determined.

- **pH**

Mixture is non-soluble (in water).

(Contd. on page 6)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

Trade name: AR-P 3220

(Contd. of page 5)

· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Viscosity at 100°C:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	3.1 hPa
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Density (@15°C)</b>	Not determined.
· <b>Vapour density</b>	Not determined.
<b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	58.1-<58.2 %
· <b>VOC (EC)</b>	58.11-<58.19 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
<b>Information with regard to physical hazard classes</b>	
· <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>	Flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.

(Contd. on page 7)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

Trade name: AR-P 3220

(Contd. of page 6)

- **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:

##### 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
Inhalative	LC50 (4h)	35.7 mg/l (rat)

##### 68510-93-0 Naphthochinondiazid

Oral	LD50	>5,000 mg/kg (rat)
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##### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

##### 1319-77-3 cresol (mix)

Oral	LD50	1,454 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LD50	1.21 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **11.2 Information on other hazards**

#### · Endocrine disrupting properties

None of the ingredients is listed.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 108-65-6 2-methoxy-1-methylethyl acetate

LC50 (96h) mg/ltr.	>100 mg/ltr (Fish) 100-180 mg/ltr (Oncorhynchus mykiss) 134 mg/ltr (rainbow trout)
EC50 (48h)	408 mg/l (daphnia)
ErC50 (96h)	>1,000 mg/ltr (algae)
NOEC	100 mg/l (daphnia)

##### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

LC50 (96h) mg/ltr.	1.5 mg/ltr (rainbow trout)
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##### 1319-77-3 cresol (mix)

LC50 (96) ppm	19 ppm (Fish)
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- **12.2 Persistence and degradability** No further relevant information available.

#### · Method

108-65-6	2-methoxy-1-methylethyl acetate	83
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(Contd. on page 8)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

Trade name: AR-P 3220


(Contd. of page 7)

- **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** No further relevant information available.
- **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 course or sewage system.

### 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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <p style="text-align: center;">UN1993</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>  | <p style="text-align: center;">1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)</p> <p style="text-align: center;">FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)</p>                          |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <div style="text-align: center;">  </div> <p style="text-align: center;">3 Flammable liquids.</p> <p style="text-align: center;">3</p> |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: center;">III</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>  | <p style="text-align: center;">Not applicable.</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul> | <p style="text-align: center;">Warning: Flammable liquids.</p> <p style="text-align: center;">30</p> <p style="text-align: center;">F-E,<u>S-E</u></p> <p style="text-align: center;">A</p>                               |
| <ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>   | <p style="text-align: center;">Not applicable.</p>  |

(Contd. on page 9)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

Trade name: AR-P 3220

(Contd. of page 8)

· **Transport/Additional information:**

· **ADR**

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

D/E

· **IMDG**

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 1993 FLAMMABLE LIQUID, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE), 3, III

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)**

None of the ingredients is listed.

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

1319-77-3 cresol (mix)

Listed

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

1319-77-3 cresol (mix)

Listed

· **Directive 2012/18/EU**

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

· **Seveso category P5c** FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

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

### SECTION 16: Other information

· **Disclaimer**

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in

(Contd. on page 10)

## Safety data sheet according to UK REACH

Printing date 15.11.2024

Version number 1.1 (replaces version 1.0)

Revision: 15.11.2024

Trade name: AR-P 3220

(Contd. of page 9)

connection with his activity.

· **Relevant phrases**

H226 Flammable liquid and vapour.  
 H228 Flammable solid.  
 H242 Heating may cause a fire.  
 H301 Toxic 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.  
 H330 Fatal if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Quality Management department

· **Contact:** MSDS authorized Person

· **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)  
 VOC: Volatile Organic Compounds (USA, EU)  
 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  
 vPvB: very Persistent and very Bioaccumulative  
 ATE: Acute toxicity estimate values  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Flam. Sol. 1: Flammable solids – Category 1  
 Self-react. C: Self-reactive substances and mixtures – Type C/D  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 2: Acute toxicity – Category 2  
 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  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

GB