# Safety data sheet
according to UK REACH

Printing date 05.09.2025 Version number 7 (replaces version 6) Revision: 05.09.2025

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

· **1.1 Product identifier**

· **Trade name: IMIX 90-355 EP Hardener fast**
· **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** Epoxy curing agent

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Herlac Coswig GmbH
Industriestraße 28
D-01640 Coswig
Tel.: +49(0)3523-920
Fax.: +49(0)3523-92322
e-mail: sdb-registratur@mipa-paints.com
www.herlac.com
· **1.4 Emergency telephone number:** +49(0)700 24112112 (HEM)

* 
## 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.


GHS08 health hazard

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.


GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.


GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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


GHS02 GHS05 GHS07 GHS08

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· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
*Polyaminoamide adduct*
*Butan-1-ol*
*Reaction mass of ethylbenzene and xylene*
*Isobutanol*
· ***Hazard statements***
*H226 Flammable liquid and vapour.*
*H315 Causes skin irritation.*
*H318 Causes serious eye damage.*
*H317 May cause an allergic skin reaction.*
*H335 May cause respiratory irritation.*
*H373 May cause damage to the hearing organs through prolonged or repeated exposure.*
*H412 Harmful to aquatic life with long lasting effects.*
· ***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.* |
| *P303+P361+P353* | *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].* |
| *P305+P351+P338* | *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.* |
| *P310* | *Immediately call a POISON CENTER/doctor.* |
| *P321* | *Specific treatment (see on this label).* |
| *P362+P364* | *Take off contaminated clothing and wash it before reuse.* |
| *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:***

| | | |
|---|---|---|
| *EC number: 905-588-0*<br>*Reg.nr.: 01-2119488216-32* | *Reaction mass of ethylbenzene and xylene*<br>*Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412* | *25-50%* |
| | *Polyaminoamide adduct*<br>*Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317* | *10-25%* |
| *CAS: 71-36-3*<br>*EINECS: 200-751-6*<br>*Reg.nr.: 01-2119484630-38* | *Butan-1-ol*<br>*Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336* | *≥3-<10%* |
| *CAS: 78-83-1*<br>*EINECS: 201-148-0*<br>*Reg.nr.: 01-2119484609-23* | *Isobutanol*<br>*Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336* | *≥3-<10%* |
| *CAS: 90-72-2*<br>*EINECS: 202-013-9*<br>*Reg.nr.: 01-2119560597-27* | *2,4,6-tris(dimethylaminomethyl)phenol*<br>*Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302* | *≥3-<5%* |

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| | | |
|---|---|---|
| *CAS: 108-65-6*<br>*EINECS: 203-603-9*<br>*Reg.nr.: 01-2119475791-29* | *2-Methoxy-1-methylethyl acetate*<br>*Flam. Liq. 3, H226; STOT SE 3, H336* | *<2.5%* |
| *CAS: 107-15-3*<br>*EINECS: 203-468-6*<br>*Reg.nr.: 01-2119480383-37* | *ethylenediamine*<br>*Flam. Liq. 3, H226; Acute Tox. 3, H311; Resp. Sens. 1B, H334; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1B, H317; Aquatic Chronic 3, H412* | *≥0.1-<1%* |

· ***SVHC***

| | |
|---|---|
| *107-15-3* | *ethylenediamine* |

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

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## *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:*** *Immediately rinse with water.*
· ***After eye contact:*** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
· ***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.*

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## *SECTION 5: Firefighting measures*

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***
*CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
· ***For safety reasons unsuitable extinguishing agents:*** *Water with full jet*
· ***5.2 Special hazards arising from the substance or mixture***
*During heating or in case of fire poisonous gases are produced.*
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Mouth respiratory protective device.*

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## *SECTION 6: Accidental release measures*

· ***6.1 Personal precautions, protective equipment and emergency procedures***
*Mount respiratory protective device.*
*Wear protective equipment. Keep unprotected persons away.*
· ***6.2 Environmental precautions:***
*Do not allow product to reach sewage system or any water course.*
*Inform respective authorities in case of seepage into water course or sewage system.*
*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).*
*Use neutralising agent.*
*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.*

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*See Section 8 for information on personal protection equipment.*
*See Section 13 for disposal information.*

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## *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.*
*Protect against electrostatic charges.*
*Keep respiratory protective device available.*

· ***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:*** *Store away from foodstuffs.*
· ***Further information about storage conditions:*** *Keep container tightly sealed.*
· ***Storage class:*** *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:*** | |
|---|---|
| ***71-36-3 Butan-1-ol*** | |
| *WEL* | *Short-term value: 154 mg/m³, 50 ppm*<br>*Sk* |
| ***78-83-1 Isobutanol*** | |
| *WEL* | *Short-term value: 231 mg/m³, 75 ppm*<br>*Long-term value: 154 mg/m³, 50 ppm* |
| ***108-65-6 2-Methoxy-1-methylethyl acetate*** | |
| *WEL* | *Short-term value: 548 mg/m³, 100 ppm*<br>*Long-term value: 274 mg/m³, 50 ppm*<br>*Sk* |

| · ***DNELs*** | | |
|---|---|---|
| ***Reaction mass of ethylbenzene and xylene*** | | |
| *Dermal* | *DNEL* | *212 mg/kg (Arbeiter)* |
| *Inhalative* | *DNEL* | *221 mg/m³ (Arbeiter)* |

· ***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.*
· ***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.*
*Store protective clothing separately.*
*Avoid contact with the eyes.*
*Avoid contact with the eyes and skin.*

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· **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**
*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 (EN 374)*

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

· **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.*

· **Breakthrough time of glove material**
*The exact break trough 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** | *Liquid* |
| · **Colour:** | *According to product specification* |
| · **Odour:** | *Characteristic* |
| · **Odour threshold:** | *Not determined.* |
| · **Melting point/freezing point:** | *Undetermined.* |
| · **Boiling point or initial boiling point and boiling range** | *108 °C (78-83-1 Isobutanol)* |
| · **Flammability** | *Flammable.* |
| · **Lower and upper explosion limit** | |
| · **Lower:** | *1 Vol % (Reaction mass of ethylbenzene and xylene)* |
| · **Upper:** | *7 Vol % (Reaction mass of ethylbenzene and xylene)* |
| · **Flash point:** | *27 °C (DIN 53213)* |
| · **Auto-ignition temperature:** | *325 °C (DIN 51794, 71-36-3 Butan-1-ol)* |
| · **Decomposition temperature:** | *Not determined.* |
| · **pH** | *Not determined.* |
| · **Viscosity:** | |
| · **Kinematic viscosity at 20 °C** | *75 s (DIN 53211/4)* |
| · **Dynamic:** | *Not determined.* |
| · **Solubility** | |
| · **water:** | *Not miscible or difficult to mix.* |

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| | |
|---|---|
| · ***Partition coefficient n-octanol/water (log value)*** | *Not determined.* |
| · ***Vapour pressure at 20 °C:*** | *12 hPa (78-83-1 Isobutanol)* |
| · ***Density and/or relative density*** | |
| · ***Density at 20 °C:*** | *0.914 g/cm³ (DIN 53217)* |
| · ***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.* |
| · ***Solvent content:*** | |
| · ***VOC (EC)*** | *56.81 %* |
| · ***Solids content (weight-%):*** | *43.2 %* |
| · ***Change in condition*** | |
| · ***Evaporation rate*** | *Not determined.* |

| | |
|---|---|
| · ***Information with regard to physical hazard classes*** | |
| · ***Explosives*** | *Void* |
| · ***Flammable gases*** | *Void* |
| · ***Aerosols*** | *Void* |
| · ***Oxidising gases*** | *Void* |
| · ***Gases under pressure*** | *Void* |
| · ***Flammable liquids*** | *Flammable liquid and vapour.* |
| · ***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* |

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## *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.*
· ***10.5 Incompatible materials:*** *No further relevant information available.*
· ***10.6 Hazardous decomposition products:*** *Carbon monoxide*



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## 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:** | | |
|---|---|---|
| **Reaction mass of ethylbenzene and xylene** | | |
| Oral | LD50 | 3,500 mg/kg (rat) |
| Dermal | LD50 | 15,400 mg/kg (rat) |
| Inhalative | LC50/4 h | 17.6 mg/l (rat) |
| **71-36-3 Butan-1-ol** | | |
| Oral | LD50 | 2,290 mg/kg (rat) |
| Dermal | LD50 | 3,400 mg/kg (rabbit) |
| **78-83-1 Isobutanol** | | |
| Oral | LD50 | 2,460 mg/kg (rat) |
| Dermal | LD50 | 3,400 mg/kg (rabbit) |
| **108-65-6 2-Methoxy-1-methylethyl acetate** | | |
| Oral | LD50 | 8,532 mg/kg (rat) |
| **107-15-3 ethylenediamine** | | |
| Oral | LD50 | 866 mg/kg (rat) |
| Dermal | LD50 | 560 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 14.7 mg/l (rat) |

· **Primary irritant effect:**
· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye damage.
· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **STOT-single exposure** May cause respiratory irritation.
· **STOT-repeated exposure** May cause damage to the hearing organs through prolonged or repeated exposure.
· **11.2 Information on other hazards**

| · **Endocrine disrupting properties** |
|---|
| None of the ingredients is listed. |

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## SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **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**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) : hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.

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*Danger to drinking water if even small quantities leak into the ground.*
*Harmful to aquatic organisms*

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## *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*

| | |
|---|---|
| · ***14.1 UN number or ID number*** | |
| · ***ADR, IMDG, IATA*** | *UN1263* |
| · ***14.2 UN proper shipping name*** | |
| · ***ADR*** | *UN1263 PAINT RELATED MATERIAL* |
| · ***IMDG, IATA*** | *PAINT RELATED MATERIAL* |
| · ***14.3 Transport hazard class(es)*** | |
| · ***ADR*** | |




| | |
|---|---|
| · ***Class*** | *3 (F1) Flammable liquids.* |
| · ***Label*** | *3* |
| · ***IMDG, IATA*** | |




| | |
|---|---|
| · ***Class*** | *3 Flammable liquids.* |
| · ***Label*** | *3* |
| · ***14.4 Packing group*** | |
| · ***ADR, IMDG, IATA*** | *III* |
| · ***14.5 Environmental hazards:*** | |
| · ***Marine pollutant:*** | *No* |
| · ***14.6 Special precautions for user*** | *Warning: Flammable liquids.* |
| · ***Hazard identification number (Kemler code):*** | *30* |
| · ***EMS Number:*** | *F-E,S-E* |
| · ***Stowage Category*** | *A* |
| · ***14.7 Maritime transport in bulk according to IMO instruments*** | *Not applicable.* |
| · ***Transport/Additional information:*** | |
| · ***ADR*** | |
| · ***Limited quantities (LQ)*** | *5L* |
| · ***Transport category*** | *3* |

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| | |
|---|---|
| · ***Tunnel restriction code*** | *D/E* |
| · ***IMDG*** | |
| · ***Limited quantities (LQ)*** | *5L* |
| · ***UN "Model Regulation":*** | *UN 1263 PAINT RELATED MATERIAL, 3, III* |

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## *SECTION 15: Regulatory information*

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

· ***Regulated explosives precursors***
*None of the ingredients is listed.*

· ***Regulated poisons***
*None of the ingredients is listed.*

· ***Reportable explosives precursors***
*None of the ingredients is listed.*

· ***Reportable poisons***
*None of the ingredients is 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*

· ***National regulations:***
· ***Additional classification according to Decree on Hazardous Materials, Annex II:***

| ***Class*** | ***Share in %*** |
|---|---|
| *I* | *<1* |
| *NK* | *50-100* |

· ***Substances of very high concern (SVHC) according to UK REACH***

| | |
|---|---|
| *107-15-3* | *ethylenediamine* |

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

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## *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***
*H226 Flammable liquid and vapour.*
*H302 Harmful if swallowed.*
*H304 May be fatal if swallowed and enters airways.*
*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.*
*H332 Harmful if inhaled.*
*H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
*H335 May cause respiratory irritation.*

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*H336 May cause drowsiness or dizziness.*
*H373 May cause damage to organs through prolonged or repeated exposure.*
*H412 Harmful to aquatic life with long lasting effects.*

· ***Classification according to Regulation (EC) No 1272/2008***
*The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.*

· ***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)*
*VOC: Volatile Organic Compounds (USA, EU)*
*DNEL: Derived No-Effect Level (UK REACH)*
*LC50: Lethal concentration, 50 percent*
*LD50: Lethal dose, 50 percent*
*PBT: Persistent, Bioaccumulative and Toxic*
*vPvB: very Persistent and very Bioaccumulative*
*Flam. Liq. 3: Flammable liquids – Category 3*
*Acute Tox. 3: Acute toxicity – Category 3*
*Acute Tox. 4: Acute toxicity – Category 4*
*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*
*Skin Corr. 1C: Skin corrosion/irritation – Category 1C*
*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. 1B: Respiratory sensitisation – Category 1B*
*Skin Sens. 1: Skin sensitisation – Category 1*
*Skin Sens. 1B: Skin sensitisation – Category 1B*
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*
*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*
*Asp. Tox. 1: Aspiration hazard – Category 1*
*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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