Safety Data Sheet
according to Regulation (EC) No. 2015/830

## SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

**1.1 Product Identifier**

DECKSHIELD FLEXIBLE BINDER (WHT)

**Product Name:** Deckshield Flexible Binder (wht)

**Revision Date:** 19/01/2017

**Supercedes Date:** 21/09/2015

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Coatings and paints, thinners, paint removers. Hand-mixing with intimate contact and only PPE available. Wide dispersive indoor use resulting in inclusion into or onto a matrix. Wide dispersive outdoor use resulting in inclusion into or onto a matrix. For use by appropriately trained applicators. Roller application or brushing. Low energy spreading of coatings. Advised against: Home DIY applications, because of the health hazards and training required.

**1.3 Details of the supplier of the safety data sheet**

**Supplier:**

Flowcrete UK Ltd.
The Flooring Technology Centre
Booth Lane
Moston, Sandbach, Cheshire. UK
CW11 3QF

Tel: +44 (0)1270 753000
Fax: +44 (0)1270 753333
ehs.uk@flowcrete.com
http://www.flowcrete.co.uk

**Datasheet Produced by:** ehs.uk@flowcrete.com

**1.4 Emergency telephone number:**

CHEMTREC +001 703 5273887 (Outside US)
CHEMTREC 1-800-424-9300 (Inside US)

## SECTION 2: Hazard Identification

**2.1 Classification of the substance or mixture**

**Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008**

**HAZARD STATEMENTS**

| | |
|---|---|
| Other EU extensions | EUH205 |
| Flammable Liquid, category 2 | H225 |
| Skin Irritation, category 2 | H315 |

| | |
|---|---|
| Skin Sensitizer, category 1 | H317 |
| STOT, single exposure, category 3, RTI | H335 |
| Hazardous to the aquatic environment, Chronic, category 3 | H412 |

### 2.2 Label elements

**Symbol(s) of Product**

**Signal Word**

Danger

**Named Chemicals on Label**

Methyl methacrylate, 2-Ethylhexyl acrylate, Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

**HAZARD STATEMENTS**

| | | |
|---|---|---|
| Other EU extensions | EUH205 | Contains epoxy constituents. May produce an allergic reaction. |
| Flammable Liquid, category 2 | H225 | Highly flammable liquid and vapour. |
| Skin Irritation, category 2 | H315 | Causes skin irritation. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |
| Hazardous to the aquatic environment, Chronic, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

**PRECAUTION PHRASES**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P235 | Keep cool. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/ face protection. |
| P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P333+313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P403+233 | Store in a well-ventilated place. Keep container tightly closed. |

### 2.3 Other hazards

No Information

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

## SECTION 3: Composition/Information On Ingredients

### 3.2 Mixtures

**Hazardous Ingredients**

| CAS-No. | EINEC No. | Name According to EEC | % |
|---|---|---|---|
| 80-62-6 | 201-297-1 | Methyl methacrylate | 25-50 |
| 103-11-7 | 203-080-7 | 2-Ethylhexyl acrylate | 10-25 |
| 38668-48-3 | 254-075-1 | 1,1'-(p-tolylimino)dipropan-2-ol | 1.0-2.5 |

| | | | |
|---|---|---|---|
| 25068-38-6 | 500-033-5 | Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) | 1.0-2.5 |
| 99-97-8 | 202-805-4 | N,N-dimethyl-p-toluidine | 0.1-1.0 |

| CAS-No. | REACH Reg No. | CLP Symbols | CLP Hazard Statements | M-Factors |
|---|---|---|---|---|
| 80-62-6 | 01-2119452498-28 | GHS02-GHS07 | H225-315-317-335 | |
| 103-11-7 | 01-2119453158-37 | GHS07 | H315-317-335-412 | |
| 25068-38-6 | 01-2119456619-26 | GHS07-GHS09 | H315-317-319-411 | |
| 38668-48-3 | | GHS06 | H301-412 | |
| 99-97-8 | 01-2119937766-23 | GHS06-GHS08 | H301-311-331-373-412 | |

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 4: First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes.
**AFTER INHALATION:** Keep respiratory tract clear. Remove person to fresh air. If signs/symptoms continue, get medical attention.
**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do NOT use solvents or thinners.
**AFTER EYE CONTACT:** Keep eye wide open while rinsing. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. If symptoms persist, call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

**Self protection of the first aider:**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

No Information

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above.

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

Explosive reaction may occur on heating or burning. In use, may form flammable/explosive vapour-air mixture.

### 5.3 Advice for firefighters

Keep containers and surroundings cool with water spray. Fire will produce dense black smoke containing hazardous combustion products (see section 10). Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental Release Measures

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

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

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

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Ventilate the area. Refer to protective measures listed in sections 7 and 8.

### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Take measures to prevent the build up of electrostatic charge. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Provide exhaust ventilation close to floor level. As a rule, at least 10 air changes per hour are recommended at the workplace. Wear personal protective equipment. Open drum carefully as content may be under pressure. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Keep product and empty container away from heat and sources of ignition. Use only explosion-proof equipment. Have fire extinguishers ready before opening the drum. Do not use sparking tools. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Heat, flames and sparks.
**STORAGE CONDITIONS:** Store at room temperature in the original container. Keep in an area equipped with solvent resistant flooring. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

### 7.3 Specific end use(s)

Used with Flowfast catalyst. Component of a resin flooring product. The mixing and application to be in accordance with the technical data sheets.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

**Ingredients with Occupational Exposure Limits**
**(UK WELS)**

| Name | CAS-No. | LTEL ppm | STEL ppm | STEL mg/m3 | LTEL mg/m3 |
|---|---|---|---|---|---|
| Methyl methacrylate | 80-62-6 | 50 | 100 | 416 | 208 |
| 2-Ethylhexyl acrylate | 103-11-7 | | | | |
| 1,1'-(p-tolylimino)dipropan-2-ol | 38668-48-3 | | | | |
| Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) | 25068-38-6 | | | | |
| N,N-dimethyl-p-toluidine | 99-97-8 | | | | |

| Name | CAS-No. | OEL Note |
|---|---|---|
| Methyl methacrylate | 80-62-6 | |
| 2-Ethylhexyl acrylate | 103-11-7 | |
| Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) | 25068-38-6 | |
| 1,1'-(p-tolylimino)dipropan-2-ol | 38668-48-3 | |
| N,N-dimethyl-p-toluidine | 99-97-8 | |

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

### 8.2 Exposure controls

**Personal Protection**

**RESPIRATORY PROTECTION:** Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. In case of insufficient ventilation wear suitable respiratory equipment. Respirator with filter for organic vapor.

**EYE PROTECTION:** Eye wash bottle with pure water. Safety goggles. Safety glasses with side-shields conforming to EN166.

**HAND PROTECTION:** Solvent-resistant gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Protective suit. Remove contaminated clothing and protective equipment before entering eating areas.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** As a rule, at least 10 air changes per hour are recommended at the workplace. Avoid contact with skin, eyes and clothing. Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

**Chemical Name:**
Methyl methacrylate

**EC No.:** 201-297-1

**CAS-No.:** 80-62-6

**DNELs - Derived no effect level**

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | | | |
| Inhalation | | | 208 mg/m³ | 208 mg/m³ | | | 104 mg/m³ | 74.3 mg/m³ |
| Dermal | | 1.5 mg/cm² | 1.5 mg/cm² | 13.67 mg/kg bw/d | 1.5 mg/cm² | | 1.5 mg/cm² | 8.2 mg/kg bw/d |

**PNEC's - Predicted no effect concentration**

| Environmental protection target | PNEC |
|---|---|
| Fresh water | 0.94 mg/l |
| Fresh water sediments | 5.74 mg/kg |
| Marine water | 0.94 mg/l |
| Marine sediments | |
| Food chain | |
| Microorganisms in sewage treatment | |
| soil (agricultural) | 1.47 mg/kg |
| Air | |

**Chemical Name:**

2-Ethylhexyl acrylate

**EC No.:** 203-080-7

**CAS-No.:** 103-11-7

**DNELs - Derived no effect level**

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | | | |
| Inhalation | | | 37.5 mg/m³ | | | | 4.5 mg/m³ | |
| Dermal | 0.242 mg/cm² | | | | 0.242 mg/cm² | | | |

**PNEC's - Predicted no effect concentration**

| Environmental protection target | PNEC |
|---|---|
| Fresh water | 2.72 µg/l |
| Fresh water sediments | 0.126 mg/kg |
| Marine water | 0.272 µg/l |
| Marine sediments | 12.6 µg/kg |
| Food chain | |
| Microorganisms in sewage treatment | 2.3 mg/l |
| soil (agricultural) | 1 mg/kg |
| Air | |

**Chemical Name:**

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

**EC No.:** 500-033-5

**CAS-No.:** 25068-38-6

**DNELs - Derived no effect level**

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | 0.75 mg/kg | | 0.75 mg/kg |
| Inhalation | | 12.25 mg/m³ | | 12.25 mg/m³ | | | | |
| Dermal | | 8.33 mg/kg | | 8.33 mg/kg | | 3.571 mg/kg | | 3.571 mg/kg |

**PNEC's - Predicted no effect concentration**

| Environmental protection target | PNEC |
|---|---|
| Fresh water | 0.006 mg/l |
| Fresh water sediments | 0.996 mg/l |
| Marine water | 0.0006 mg/l |
| Marine sediments | 0.0996 mg/l |
| Food chain | |
| Microorganisms in sewage treatment | 10 mg/l |
| soil (agricultural) | 0.196 mg/kg |
| Air | |

## SECTION 9: Physical and Chemical Properties

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

| | |
|---|---|
| **Appearance:** | yellowish |
| **Physical State** | Liquid |
| **Odor** | Strong MMA smell |
| **Odor threshold** | 0.05 ppm |
| **pH** | Not determined |

| | |
|---|---|
| **Melting point / freezing point (°C)** | Not determined |
| **Boiling point/range (°C)** | 101 - N.D. |
| **Flash Point, (°C)** | 10 |
| **Evaporation rate** | Not determined |
| **Flammability (solid, gas)** | Not determined |
| **Upper/lower flammability or explosive limits** | 2.1 - 12.5 |
| **Vapour Pressure** | 38.7 mbar (MMA) |
| **Vapour density** | Not determined |
| **Relative density** | ca. 1.0 |
| **Solubility in / Miscibility with water** | Insoluble |
| **Partition coefficient: n-octanol/water** | 1.38 log Pow (MMA) |
| **Auto-ignition temperature (°C)** | 245 |
| **Decomposition temperature (°C)** | Not determined |
| **Viscosity** | Not determined |
| **Explosive properties** | Not determined |
| **Oxidising properties** | Not determined |

**9.2 Other information**

**VOC Content g/l:** <10

**This is a calculated maximum VOC content for the mixed ready to use product (to Directive 2004/42/EC).**

## SECTION 10: Stability and Reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions. Explosive reaction may occur on heating or burning.

**10.2 Chemical stability**
Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**
Polymerisation occurs when exposed to white light, ultraviolet light or heat.

**10.4 Conditions to avoid**
Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Heat, flames and sparks.

**10.5 Incompatible materials**
Oxidizing agents. Amines. Reducing agents. Heavy metal salts. Avoid radical-forming starting agents, peroxides and reactive metals.

**10.6 Hazardous decomposition products**
In case of fire **hazardous decomposition products** may be produced such as**:** Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). No dangerous reaction known under conditions of normal use.

## SECTION 11: Toxicological Information

**11.1 Information on toxicological effects**

**Acute Toxicity:**

**Oral LD50:** No Information

**Inhalation LC50:** No Information

**Irritation:** Skin Irritation, category 2

**Corrosivity:** No information available.

**Sensitization:** Prolonged or repeated skin contact may result in allergic eczema.

**Repeated dose toxicity:** No information available.

**Carcinogenicity:** No information available.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** No information available.

**STOT-repeated exposure:** No information available.

**Aspiration hazard:** No information available.

**If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:**

| CAS-No. | Name According to EEC | Oral LD50 | Dermal LD50 | Vapor LC50 |
|---|---|---|---|---|
| 80-62-6 | Methyl methacrylate | 7872 mg/kg (rat) | >5000 mg/kg (rabbit) | 3750 ppm (rat) |
| 103-11-7 | 2-Ethylhexyl acrylate | 4435 mg/kg (rat) | 7522 mg/kg (rabbit) | |
| 25068-38-6 | Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) | >5000 mg/kg (rat) | 2001 mg/kg (rat) OECD 402 | |
| 38668-48-3 | 1,1'-(p-tolylimino)dipropan-2-ol | 100 mg/kg (rat) | | |

**Additional Information:**

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

## SECTION 12: Ecological Information

**12.1 Toxicity:**

**EC50 48hr (Daphnia):** No information

**IC50 72hr (Algae):** No information

**LC50 96hr (fish):** No information

**12.2 Persistence and degradability:** MMA: 94 %, OECD 301 C.

**12.3 Bioaccumulative potential:** No information

**12.4 Mobility in soil:** No information

**12.5 Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**12.6 Other adverse effects:** No information

| CAS-No. | Name According to EEC | EC50 48hr | IC50 72hr | LC50 96hr |
|---|---|---|---|---|
| 80-62-6 | Methyl methacrylate | 69 mg/l (OECD 202) | >110 mg/l | 79 mg/l (OECD 203) |
| 103-11-7 | 2-Ethylhexyl acrylate | 17.45 mg/l | 44 mg/l (Desmodesmus subspicatus) | 4.6 mg/l |
| 38668-48-3 | 1,1'-(p-tolylimino)dipropan-2-ol | No information | No information | No information |
| 25068-38-6 | Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) | 1.7 mg/l OECD 202 | 13.81 mg/l (Pseudokirchneriella subcapitata) OECD 201 | 1.5 mg/l (Oncorhynchus mykiss) OECD 203 |
| 99-97-8 | N,N-dimethyl-p-toluidine | No information | No information | No information |

### Further Ecological Information

Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

| CAS-No. | Name According to EEC |
|---|---|
| 25068-38-6 | Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) |
| 38668-48-3 | 1,1'-(p-tolylimino)dipropan-2-ol |

## SECTION 13: Disposal Considerations

**13.1** **WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. Dispose of as hazardous waste in compliance with local and national regulations. Container hazardous when empty. Empty containers should be taken to an approved waste handling site for recycling or disposal. The product should not be allowed to enter drains, water courses or the soil.

**European Waste Code:** 080111*
**Packaging Waste Code:** 150110

## SECTION 14: Transport Information

**14.1 UN number** 1866
**14.2 UN proper shipping name** Resin solution
**Technical name** Not applicable
**14.3 Transport hazard class(es)** 3
**Subsidiary shipping hazard** Not applicable
**14.4 Packing group** II
**14.5 Environmental hazards** Not applicable
**14.6 Special precautions for user** Not applicable
**EmS-No.:** Not applicable
**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** Not applicable

## SECTION 15: Regulatory Information

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

**National Regulations:**

**Denmark Product Registration Number:** Not available

**Danish MAL Code:** Not available

| | |
|---|---|
| **Danish MAL Code - Mixture:** | Not available |
| **Sweden Product Registration Number:** | Not available |
| **Norway Product Registration Number:** | Not available |
| **WGK Class:** | 2 |

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other Information

**Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Reasons for revision**

Regulatory Formula Source Changed
Substance and/or Product Properties Changed in Section(s):
02 - Hazards Identification
08 - Exposure Controls/Personal Protection
11 - Toxicological Information
Substance Chemical Name Changed
Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

| | |
|---|---|
| CLP | Classification, Labeling & Packaging Regulation |
| EC | European Commission |
| EU | European Union |
| US | United States |

| | |
|---|---|
| CAS | Chemical Abstract Service |
| EINECS | European Inventory of Existing Chemical Substances |
| REACH | Registration, Evaluation, Authorization of Chemicals Regulation |
| GHS | Globally Harmonized System of Classification and Labeling of Chemicals |
| LTEL | Long term exposure limit |
| STEL | Short term exposure limit |
| OEL | Occupational exposure limit |
| ppm | Parts per million |
| mg/m3 | Milligrams per cubic meter |
| TLV | Threshold Limit Value |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| OSHA | Occupational Safety & Health Administration |
| PEL | Permissible Exposure Limits |
| VOC | Volatile organic compounds |
| g/l | Grams per liter |
| mg/kg | Milligrams per kilogram |
| N/A | Not applicable |
| LD50 | Lethal dose at 50% |
| LC50 | Lethal concentration at 50% |
| EC50 | Half maximal effective concentration |
| IC50 | Half maximal inhibitory concentration |
| PBT | Persistent bioaccumulative toxic chemical |
| vPvB | Very persistent and very bioaccumulative |
| EEC | European Economic Community |
| ADR | International Transport of Dangerous Goods by Road |
| RID | International Transport of Dangerous Goods by Rail |
| UN | United Nations |
| IMDG | International Maritime Dangerous Goods Code |
| IATA | International Air Transport Association |
| MARPOL | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 |
| IBC | International Bulk Container |
| RTI | Respiratory Tract Irritation |
| NE | Narcotic Effects |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.