

**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:** CEMENT DESIGN – BIOCLAY CRACK 1K – [BCLY-C 1K-20 , BCLY-C 1K -10]

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

Relevant uses: Clay based coating. For professional user only.

Uses advised against: All uses not specified in this section or in section 7.3

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

CEMENT DESIGN  
CAMINO DEL AVENIDA 2, S/N  
45290 PANTOJA –TOLEDO Spain  
Tfno.: +34 91 140 7965  
[info@cement-design.com](mailto:info@cement-design.com)  
[www.cement-design.com](http://www.cement-design.com)

**1.4 Emergency telephone number:** +34 91 140 7965

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) n° 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Sens. 1: Sensitisation, skin, Category 1, H317

**2.2 Label elements:**

**CLP Regulation (EC) n° 1272/2008:**

Danger



**Hazard statements:**

Eye Dam. 1: H318 - Causes serious eye damage

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

**Precautionary statements:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P272: Contaminated work clothing should not be allowed out of the workplace

P280: Wear protective gloves/protective clothing/eye protection/face protection

P302+P352: IF ON SKIN: Wash with plenty of water

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

**Substances that contribute to the classification**

Cement, portland, chemicals

**2.3 Other hazards:**

May form explosible dust-air mixture if dispersed

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

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**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

**Chemical description:** Solution of additives, aggregates and cements

**Components:**

| Identification                                                                     | Chemical name/Classification                          |                                                                                     | Concentration         |
|------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|
| CAS: 14808-60-7<br>EC: 238-878-4<br>Index: Non-applicable<br>REACH: Non-applicable | <b>Quartz (1 % &lt; RCS &lt; 10%)</b> Self-classified |                                                                                     | <b>2,5 - &lt;10 %</b> |
|                                                                                    | Regulation 1272/2008                                  | STOT RE 2: H373 - Warning                                                           |                       |
| CAS: 12173-60-3<br>Index: No aplicable<br>REACH: No aplicable                      | <b>Hydrated alumina silicate</b> Self-classified      |                                                                                     | <b>2,5 - &lt;10 %</b> |
|                                                                                    | Regulation 1272/2008                                  | Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger |                       |

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

The product is not flammable, it is not explosive, and does not enable or feed combustion in other materials

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

- CONTINUED ON NEXT PAGE -

**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**SECTION 5: FIREFIGHTING MEASURES (continued)**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- Precautions for safe manipulation

Use in ventilated areas. Avoid the build up of dust

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

Keep the container tightly sealed and protected from open air and humidity.

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the work environment

There are no occupational exposure limits for the substances contained in the product

- CONTINUED ON NEXT PAGE -

**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**DNEL (Workers):**

Non-applicable

**DNEL (General population):**

Non-applicable

**PNEC:**

Non-applicable

**8.2 Exposure controls:**

**A.- General security and hygiene measures in the work place**

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

| Pictogram                                  | PPE                               | Labelling   | CEN Standard        | Remarks                                                                                                                                                              |
|--------------------------------------------|-----------------------------------|-------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | <br>CAT III | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

**C.- Specific protection for the hands**

| Pictogram                     | PPE                                   | Labelling | CEN Standard | Remarks                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory hand protection | Protective gloves against minor risks | <br>CAT I |              | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374. |

**D.- Ocular and facial protection**

| Pictogram                     | PPE                                     | Labelling  | CEN Standard                    | Remarks                                                                                                                   |
|-------------------------------|-----------------------------------------|------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory face protection | Panoramic glasses against liquid splash | <br>CAT II | EN 166:2001<br>EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

**E.- Bodily protection**

| Pictogram | PPE                  | Labelling  | CEN Standard      | Remarks |
|-----------|----------------------|------------|-------------------|---------|
|           | Work clothing        | <br>CAT I  |                   |         |
|           | Anti-slip work shoes | <br>CAT II | EN ISO 20347:2012 |         |

**F.- Additional emergency measures**

It is not necessary to take additional emergency measures.

- CONTINUED ON NEXT PAGE -

**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



| Emergency measure                                                                                     | Standards                      | Emergency measure                                                                                      | Standards                     |
|-------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2002 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2002 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                             |
|---------------------------|-----------------------------|
| V.O.C. (Supply):          | 0 % weight                  |
| V.O.C. density at 20 °C:  | 0 kg/m <sup>3</sup> (0 g/L) |
| Average carbon number:    | Non-applicable              |
| Average molecular weight: | Non-applicable              |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

For complete information see the product datasheet.

**Appearance:**

|                          |               |
|--------------------------|---------------|
| Physical state at 20 °C: | Solid         |
| Appearance:              | Not available |
| Color:                   | Not available |
| Odor:                    | Not available |

**Volatility:**

|                                        |                  |
|----------------------------------------|------------------|
| Boiling point at atmospheric pressure: | Non-applicable * |
| Vapour pressure at 20 °C:              | Non-applicable * |
| Vapour pressure at 50 °C:              | Non-applicable * |
| Evaporation rate at 20 °C:             | Non-applicable * |

**Product description:**

|                                              |                        |
|----------------------------------------------|------------------------|
| Density at 20 °C:                            | 2712 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 2.712                  |
| Dynamic viscosity at 20 °C:                  | Non-applicable *       |
| Kinematic viscosity at 20 °C:                | Non-applicable *       |
| Kinematic viscosity at 40 °C:                | Non-applicable *       |
| Concentration:                               | Non-applicable *       |
| pH:                                          | Non-applicable *       |
| Vapour density at 20 °C:                     | Non-applicable *       |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *       |
| Solubility in water at 20 °C:                | Non-applicable *       |
| Solubility properties:                       | Non-applicable *       |
| Decomposition temperature:                   | Non-applicable *       |
| Melting point/freezing point:                | Non-applicable *       |
| Explosive properties:                        | Non-applicable *       |
| Oxidising properties:                        | Non-applicable *       |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

**Flammability:**

|                           |                        |
|---------------------------|------------------------|
| Flash Point:              | Non Flammable (>60 °C) |
| Autoignition temperature: | Non-applicable *       |
| Lower flammability limit: | Non-applicable *       |
| Upper flammability limit: | Non-applicable *       |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity            |
|--------------------|------------------|-------------------------|----------------|---------------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Avoid direct impact |

**10.5 Incompatible materials:**

| Acids        | Water                                    | Combustive materials | Combustible materials | Others                                      |
|--------------|------------------------------------------|----------------------|-----------------------|---------------------------------------------|
| Incompatible | Silicate formation and calcium hydroxide | Not applicable       | Not applicable        | Base metal salts (Al, NH <sub>4</sub> ,...) |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

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**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Produces serious eye damage after contact.
  - D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
    - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
    - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
    - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - E- Sensitizing effects:
    - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
    - Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
  - F- Specific target organ toxicity (STOT) - single exposure:
 

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
  - G- Specific target organ toxicity (STOT)-repeated exposure:
    - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
    - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - H- Aspiration hazard:
 

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Other information:**
- Contact with human skin, without adequate protection, can result in skin thickening, cracking, or fissuring
- Specific toxicology information on the substances:**
- Not available

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

- 12.1 Toxicity:**  
Not available
- 12.2 Persistence and degradability:**  
Not available
- 12.3 Bioaccumulative potential:**  
Not available
- 12.4 Mobility in soil:**  
Not available
- 12.5 Results of PBT and vPvB assessment:**  
Non-applicable
- 12.6 Other adverse effects:**  
Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods:**

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**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

| Code     | Description                                                                                      | Waste class (Regulation (EU) No 1357/2014) |
|----------|--------------------------------------------------------------------------------------------------|--------------------------------------------|
| 10 13 11 | Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 | Non dangerous                              |

**Type of waste (Regulation (EU) No 1357/2014):**

Non-applicable

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated for transport (ADR/RID,IMDG,IATA)

**SECTION 15: REGULATORY INFORMATION**

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Non-applicable

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

H318: Causes serious eye damage

H317: May cause an allergic skin reaction

- CONTINUED ON NEXT PAGE -

**CEMENT DESIGN - 'CEMENT DESIGN BIOCLAY CRACK 1K -[  
BCLY-C 1K -20 BCLY-C 1K -10]**



**SECTION 16: OTHER INFORMATION (continued)**

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) n° 1272/2008:**

Eye Dam. 1: H318 - Causes serious eye damage

Skin Irrit. 2: H315 - Causes skin irritation

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

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation)

STOT SE 3: H335 - May cause respiratory irritation

**Classification procedure:**

Eye Dam. 1: Calculation method

Skin Sens. 1: Calculation method

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol–water partition coefficient

Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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