



# SAFETY DATA SHEET

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

### 1.1. Product identifier

|  |                  |
|--|------------------|
| Trade name or designation of the mixture | BENTOSEAL®       |
| Registration number                      | -                |
| Synonyms                                 | None.            |
| Issue date                               | 07-December-2012 |
| Version number                           | 03               |
| Revision date                            | 01-February-2013 |
| Supersedes date                          | 07-December-2012 |

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

|                      |              |
|----------------------|--------------|
| Identified uses      | construction |
| Uses advised against | None known.  |

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

|                |   |
|----------------|---|
| Company name   | CETCO EUROPE  |
| Address        | Birch House, Scotts Quays<br>Birkenhead, Merseyside CH41 1FB<br>England<br>GB |
| Telephone      | General Information +44 (151) 606-5900  |
| e-mail         | safetydata@amcol.com  |
| Contact person | EHS Department  |

1.4. Emergency telephone number  
Emergency +1 (703) 527-3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### Hazard summary

|                       |  |
|-----------------------|--|
| Physical hazards      | Not classified for physical hazards.           |
| Health hazards        | Not classified for health hazards.             |
| Environmental hazards | Not classified for hazards to the environment. |
| Specific hazards      | Not available.                                 |
| Main symptoms         | Not available.                                 |

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

|                   |  |
|-------------------|--|
| Hazard pictograms | None.  |
| Signal word       | None.  |
| Hazard statements | The mixture does not meet the criteria for classification. |

#### Precautionary statements

|            |                |
|------------|----------------|
| Prevention | Not available. |
| Response   | Not available. |
| Storage    | Not available. |
| Disposal   | Not available. |

**Supplemental label information** Not applicable.

**2.3. Other hazards** Not assigned.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

**Composition comments** Bentonite contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. The full text for all R-phrases is displayed in Section 16.

## SECTION 4: First aid measures

**General information** Call a physician if symptoms develop or persist.

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. If symptoms are experienced, remove source of contamination or move victim to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Immediately flush skin with running water for at least 20 minutes. Get medical attention if irritation develops or persists. Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Rinse with water. Get medical attention if irritation develops or persists. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or Poison Control Centre immediately. Rinse mouth. If swallowed, do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

### 5.1. Extinguishing media

**Suitable extinguishing media** Water. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Use water to cool fire-exposed containers and to protect personnel. Water may be an ineffective extinguishing medium.

**Unsuitable extinguishing media** None known.

**5.2. Special hazards arising from the substance or mixture** Not available.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Material can be slippery when wet.

**Special fire fighting procedures** In the event of fire, cool tanks with water spray.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Ventilate closed spaces before entering. Material can be slippery when wet. In case of spills, beware of slippery floors and surfaces.

**For emergency responders** Not available.

**6.2. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). This product is miscible in water. Prevent entry into waterways, sewers, basements or confined areas. Use clean non-sparking tools to collect absorbed material. Following product recovery, flush area with water. Wipe up with absorbent material (e.g. cloth, fleece). For waste disposal, see section 13.

**6.4. Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

|  |   |
|--|---|
| <b>7.1. Precautions for safe handling</b>                                | Do not reuse the empty container. Use only with adequate ventilation. Wash hands after handling and before eating.<br><br>Keep this product from heat, sparks, or open flame.<br><br>"Empty" containers retain product residue (liquid or vapour) and can be dangerous. |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Keep away from heat, sparks, and flame. Room temperature - normal conditions. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep this material away from food, drink and animal feed. Keep out of the reach of children.                     |
| <b>7.3. Specific end use(s)</b>  | Not available.  |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

**Occupational exposure limits** No exposure limits noted for ingredient(s).

#### Biological limit values

**Biological limit values** No biological exposure limits noted for the ingredient(s).

#### Recommended monitoring procedures

Follow standard monitoring procedures.

### 8.2. Exposure controls

#### Appropriate engineering controls

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

#### Individual protection measures, such as personal protective equipment

**General information** Applicable for industrial settings only: Use personal protective equipment as required.

**Eye/face protection** Wear safety glasses; chemical goggles (if splashing is possible).

#### Skin protection

- **Hand protection**

Not normally needed.

- **Other**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Impervious gloves should be used at all times when handling this product. If splashes are likely to occur, wear: solvent-resistant apron and boots

#### Respiratory protection

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

#### Thermal hazards

Not available.

#### Hygiene measures

Do not get this material in your eyes, on your skin, or on your clothing. Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material. Eye wash fountain is recommended.

#### Environmental exposure controls

Not available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                              | Paste.                                   |
| <b>Physical state</b>                          | Solid.                                   |
| <b>Form</b>                                    | Solid. Paste.                            |
| <b>Colour</b>                                  | Grey.                                    |
| <b>Odour</b>                                   | Characteristic.                          |
| <b>Odour threshold</b>                         | Not available.                           |
| <b>pH</b>                                      | Not applicable.                          |
| <b>Melting point/freezing point</b>            | Not available.                           |
| <b>Initial boiling point and boiling range</b> | 313 °C (595.4 °F) estimated              |
| <b>Flash point</b>                             | > 230.00 °C (> 446.00 °F) Tag closed cup |
| <b>Evaporation rate</b>                        | Not applicable.                          |
| <b>Flammability (solid, gas)</b>               | Not applicable.                          |

## Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Vapour pressure** 0.000036 hPa estimated

**Vapour density** Not applicable.

**Relative density** Not available.

**Solubility(ies)** 0.5 %

**Partition coefficient (n-octanol/water)** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not applicable.

**Explosive properties** Not available.

**Oxidizing properties** Not available.

## 9.2. Other information

**9.2. Other information** No relevant additional information available.

**Density** 1.30 g/ml  
0.96 g/cm<sup>3</sup> estimated

**Percent volatile** 0 % estimated

**Specific gravity** 1.3  
0.960996102 estimated

## SECTION 10: Stability and reactivity

**10.1. Reactivity** None known.

**10.2. Chemical stability** Stable at normal conditions.

**10.3. Possibility of hazardous reactions** Will not occur.

**10.4. Conditions to avoid** Direct sources of heat. Avoid temperatures exceeding the flash point.

**10.5. Incompatible materials** None known.

**10.6. Hazardous decomposition products** At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

**General information** Not available.

### Information on likely routes of exposure

**Ingestion** Not available.

**Inhalation** Due to lack of data the classification is not possible.

**Skin contact** Due to lack of data the classification is not possible.

**Eye contact** Due to lack of data the classification is not possible.

**Symptoms** Not available.

### 11.1. Information on toxicological effects

**Acute toxicity** No data available.

**Skin corrosion/irritation** Due to lack of data the classification is not possible.

**Serious eye damage/irritation** May irritate eyes. Due to lack of data the classification is not possible.

**Respiratory sensitisation** Due to lack of data the classification is not possible.

**Skin sensitisation** Not a skin sensitiser. Due to lack of data the classification is not possible.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Due to lack of data the classification is not possible.

**Carcinogenicity**

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Due to lack of data the classification is not possible.

**Reproductive toxicity**

Due to lack of data the classification is not possible.

**Specific target organ toxicity  
- single exposure**

Due to lack of data the classification is not possible.

**Specific target organ toxicity  
- repeated exposure**

Due to lack of data the classification is not possible.

**Aspiration hazard**

Due to lack of data the classification is not possible.

**Mixture versus substance  
information**

Not available.

**Other information**

This product has no known adverse effect on human health.

**SECTION 12: Ecological information****12.1. Toxicity**

No data available for this product. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

**12.2. Persistence and  
degradability**

No data is available on the degradability of this product.

**12.3. Bioaccumulative  
potential**

Not available.

**Partition coefficient  
n-octanol/water (log Kow)**

Not available.

**Bioconcentration factor (BCF)**

Not available.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT  
and vPvB  
assessment**

Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Residual waste**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code**

Not available.

**SECTION 14: Transport information****ADR**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**ADN**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Not applicable.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Not regulated.

#### Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Not regulated.

**Directive 94/33/EC on the protection of young people at work**

Not regulated.

#### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws.

#### National regulations

Not available.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

#### List of abbreviations

Not available.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

Not available.

|   |  |
|---|--|
| <b>Full text of any statements or R-phrases and H-statements under Sections 2 to 15</b> | None.  |
| <b>Revision information</b>   | SECTION 1: Identification of the substance/mixture and of the company/undertaking: Product use<br>Composition/Information on Ingredients: Disclosure Overrides<br>Physical & Chemical Properties: Multiple Properties  |
| <b>Training information</b>   | Not available.   |
| <b>Issued by</b>  | EHS Department<br>2870 Forbs Avenue<br>Hoffman Estates, IL 60192<br>+1-847-851-1500  |
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