

## HEXATHERM XFLO 500

January 2019 - Version 2

### Section 1 - Chemical Product and company identification

|                                |   |
|--------------------------------|---|
| <b>Product Name -</b>          | <b>HEXATHERM</b>  |
| <b>Use -</b>                   | Thermal Insulation  |
| <b>Company -</b>               | <b>Cellecta Limited</b> , Bounty House, Medway Valley Park, Rochester, Kent, ME2 2NF        |
| <b>Email/Web Address -</b>     | technical@cellecta.co.uk                      www.cellecta.co.uk                            |
| <b>Emergency Contact No. -</b> | During office hours - 01634 296677. Outside of these please contact a medical professional. |

### Section 2 - Composition/Information on Ingredients

| Component  | CAS #      | EG #      |
|--|------------|-----------|
| Polystyrene  | 9003-53-6  | 500-008-9 |
| Carbon dioxide (blowing agent)                           | 00124-38-9 | 204-696-9 |
| Isobutane (co-blowing agent)                             | 00075-28-5 | 200-857-2 |
| Brominated preparation with synergic (flame retardant)   | 1889-67-4  | 217-568-2 |
| Solvent Dimethylether                                    | 115-10-6   | 204-065-8 |
| Talcum   | -          | -         |
| Colouring additive                                       | -          | -         |
| Product labeled according to regulation CLP EC 1272/2008 |            |           |

### Section 3 - Hazards Identification

No particular hazards are known

|                             |   |
|-----------------------------|---|
| <b>Appearance -</b>         | Yellow, odorless foam board with closed cells   |
| <b>Emergency Overview -</b> | To prevent ignition, avoid open fire, smoking and high temperatures. Grinding, sawing or other treatments, can produce dust particles which may under specific conditions form explosive dust atmospheres that can be ignited. Exposure to dust may be irritating to eyes, nose and throat. |

#### Potential Health Effects

|                             |  |
|-----------------------------|--|
| <b>Inhalation -</b>         | Dust produced by grinding, Sawing or other treatments, may cause irritation of the nose, throat and respiratory tract. |
| <b>Skin contact -</b>       | No effects expected.   |
| <b>Eye contact -</b>        | Dust produced by grinding, Sawing or other treatments, may cause irritation of the eyes.                               |
| <b>Ingestion -</b>          | Ingestion of the product can cause gastrointestinal irritation and/or disturbances.                                    |
| <b>Notes to physician -</b> | No specific antidote   |

### Section 4 - First aid measures

|                       |  |
|-----------------------|--|
| <b>Inhalation -</b>   | Move person to fresh air. If effects occur, consult a physician.   |
| <b>Skin Contact -</b> | Wash skin with plenty of water.  |
| <b>Eye Contact -</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, consult a medical professional. |
| <b>Ingestion -</b>    | Consult a medical professional. Do not give laxatives and don't induce vomiting.   |

### Section 5 - Fire fighting measures

|                              |   |
|------------------------------|---|
| <b>Flash Point -</b>         | 320°C Flash ignition temperature according ASTM D1929 (B) |
| <b>Extinguishing media -</b> | Foam, water, carbon dioxide                               |

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## Section 5 - Fire fighting measures (continued)

### Hazardous combustion products -

Under fire conditions, polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic or irritating compounds. Primary combustion products are Carbon Dioxide and Styrene.

### Other Important flammability information -

When the product is stored in closed containers, a flammable atmosphere can develop.

### Fire fighting instructions - Protective Equipment for fire fighters -

Keep people away. Isolate fire perimeter

Wear positive-pressure, self containing breathing apparatus and protective fire fighting clothes.

## Section 6 - Accidental Release Measures

### Protect people -

Clear non-emergency personnel from area. Use appropriate equipment.

### Environmental protection -

Firewater may be toxic.

### Clean up -

Pick up, sweep up dust and pieces. Depose in a suitable container.

## Section 7 - Handling and Storage

### Handling -

Prevent cumulation of dust. In order to prevent build-up of combustible vapours, do not store large quantities in an unventilated space.

### Storage -

Flammable vapours may cumulate.

The storage should be ventilated.

Storage, use and handling areas should be non-smoking areas.

The material should never be exposed to a flame or other ignition sources.

Take the necessary measurements to prevent build-up of static electricity.

## Section 8 - Exposure Controls/Personal Protection

### Engineering controls -

Provide general and/or local exhaust ventilation to control airborne levels below exposure guidelines.

### Personal protective equipment

#### Eye and face protection -

Use safety glasses

#### Skin protection -

Wear clean body-covering clothes.

#### Respiratory protection -

Provide general and/or local exhaust ventilation to control airborne levels below exposure guidelines.

## Section 9 - Physical and Chemical Properties

### Appearance -

Yellow foam board

### Physical state -

Solid

### Odor -

Odorless

### Specific gravity -

30 - 40kg/m<sup>3</sup>

### pH -

N/A

### Solubility (water) -

Insoluble

### Softening point -

104°C

### Decomposition -

≥320°C (Flash point)

180°C (Physical/chemical degradation)

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## Section 9 - Physical and Chemical Properties (continued)

Upper and lower explosion limits (Vol%):

|      |           |      |
|------|-----------|------|
| UEL: | DME       | 26,2 |
| LEL: | DME       | 3,3  |
| UEL: | Isobutane | 8,5  |
| LEL: | Isobutane | 1,8  |

## Section 10 - Chemical Stability and Reactivity

**Stability -** Thermally stable in typical use conditions

**Conditions to avoid -** Max use temperature - 75°C  
Avoid temperatures above 250°C  
Avoid direct sunlight

**Incompatibility with other materials -**

Avoid contact with oxidizing materials, aldehydes, amines, esters, fuel and organic solvents.

**Acute and chronic toxicity - Carcinogenicity -**

Dust from grinding, sawing, drilling may cause mechanical irritation of eyes and skin. There are no known chronic health effects connected with long term use of the product.

## Section 12 - Ecological Information

**Ecotoxicity -**

There is a high probability that the product is not acutely harmful to aquatic organisms. Inhibition of degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Toxicity to fish: LC 50 (96 h) >500 mg/l, *Leuciscus idus* (DIN 38412 Part 15)

**Persistence and degradability -** Experience shows this product to be inert and non-degradable. The product has not been tested. The statement has been derived from products of a similar structure and composition.

**Bioaccumulation potential -** The product will not be readily bioavailable due to its consistency and insolubility in water.

## Section 13 - Disposal Considerations

All disposal methods should be in accordance with federal/or local regulations

## Section 14 - Transport Information

|                                    |      |                                   |
|------------------------------------|------|-----------------------------------|
| <b>Land transport -</b>            | ADR  | Not classified as dangerous goods |
|                                    | RID  | Not classified as dangerous goods |
| <b>Inland waterway transport -</b> | ADNR | Not classified as dangerous goods |
| <b>Sea transport -</b>             | IMDG | Not classified as dangerous goods |
| <b>Air transport -</b>             | IATA | Not classified as dangerous goods |