Product Safety Information

This voluntary information sheet replaces the Safety Data Sheet, since CellBlockEX is not a hazardous material according to the CLP regulation.

Trade name: CellBlockEX® fire/heat/smoke suppressant

Date: 2016-01-08

1. Chemical product and company identification

1.1 Product Identifier: CellBlockEX® fire/heat/smoke suppressant
   Grain size in mm: 1-4

1.2 Usage of the material/mixture:
   Mineral fire extinguishing agent for Class D (metal) Fires and lithium-ion battery fires

1.3 Details of the supplier, which provides this Material Safety Data Sheet:
   CellBlock Fire Containment Systems
   234 Northeast Roa, Unit #5
   Standish, Maine 04084
   800-440-4119
   Email: info@cellblockfcs.com
   Website: cellblockfcs.com

1.4 Emergency Information:
   Phone: 800-440-4119

2. Possible dangers

2.1 Classification of the material/mixture
   This product is excluded from the specific labelling requirements of 1999/45/EG, guideline 67/548/EWG and 1272/2008(CLP).

2.2 WHMIS-Symbols
   None

2.3 Other dangers
   If granules are destroyed and improper use occurs, dust may cause irritation of the eyes and respiratory tract.

   Safety note: P262 avoid contact with your eyes, skin or clothes
   Note for medical doctor: Show this data sheet to attending doctor.

3. Composition/Information on ingredients

CellBlockEX® is an article according to REACH and not a raw material or mixture. It is excluded from the labelling requirement (see item 15.2)

Chemical description: Non-organic, thermally expanded glass granulate on basis of post consumer glass (container glass and flat glass - soda-lime-silica glass)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Chemical formula</th>
<th>typical % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicium Dioxide</td>
<td>SiO₂</td>
<td>70-75</td>
</tr>
<tr>
<td>Sodium Oxide</td>
<td>Na₂O</td>
<td>10-15</td>
</tr>
<tr>
<td>Calcium Oxide</td>
<td>CaO</td>
<td>7-11</td>
</tr>
<tr>
<td>Aluminium Oxide</td>
<td>Al₂O₃</td>
<td>0.5-5</td>
</tr>
<tr>
<td>Magnesium Oxide</td>
<td>MgO</td>
<td>0.5</td>
</tr>
<tr>
<td>Potassium Oxide</td>
<td>K₂O</td>
<td>0.4</td>
</tr>
<tr>
<td>CAS no.:</td>
<td>65997-17-3</td>
<td></td>
</tr>
<tr>
<td>EC no./EINECS no.:</td>
<td>266-046-0</td>
<td></td>
</tr>
<tr>
<td>Index no.:</td>
<td>Not controlled/Not regulated</td>
<td></td>
</tr>
<tr>
<td>Additional details:</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>
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4. First aid measures

4.1 Description of first aid measures:
   - after inhalation: Seek fresh air immediately. If inhaled, seek medical aid.
   - after skin contact: Wash skin with soap and water. Remove soiled clothing and shoes. Consult a doctor in case of irritations.
   - after eye contact: Flush eyes for five minutes. Consult a doctor if irritation persists.
   - after ingestion: There are no known effects. Irritation of the mouth throat, trachea and gastro-intestinal tract are possible. Rinse mouth, drink water and consult a doctor.

4.2 The most important, urgent and delayed symptoms and effects
   There are no known symptoms or effects.

5. Fire fighting measures

5.1 Extinguishing agent
   Not applicable, product is non-flammable.

5.2 Special risks of the material/mixture
   No special risks caused by the product or mixture.

5.3 Information about fire fighting
   The extinguishing agent should be chosen according to the primary cause of fire.

6. Accidental release measures

6.1 Personal precaution and protective equipment
   Use personal safety equipment. The usage of a particle filtered protective mask is indicated.

6.2 Measures for environmental protection
   Product shouldn’t be flushed. It floats on water due to low density and may cause blocked pipes.

6.3 Procedure to stop spillage and measures for cleaning
   Remove spillage in accordance with Section 8. Sweep or vacuum the spillage and dispose of it properly.

6.4 Reference to another paragraph
   Instructions for disposal see paragraph 13

7. Handling and storage

7.1 Notes for safe handling
   Avoid formation of dust. The usage of particle filtered protective mask P2 is required if the dust concentration rises above the reference value. Avoid contact with eyes. Avoid ingestion or inhalation.

7.2 Notes for safe storage in consideration of incompatibility
   Protect against humidity

7.3 Specific usage
   Maximum blowing pressure for pneumatic conveyors is 0.8 bar
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Date: 2016-01-08

8. Exposure controls/personal protection

8.1 Controlled parameters

Exposure limits

General maximum dust emission (ASGW)
Respirable dust: 1,25 mg/m³
Total inhalable dust: 10 mg/m³

Exceedance factor and category: 2 (II)

*These values are reference dust values. Reference dust values vary depending on the country of application.*

8.2 Limitation and controlling of the exposition

Personal protective Equipment

Respiratory protection: The usage of a particle filtered protective mask P2 is required if the dust concentration rises above the reference AGW value.

Eye protection: Wear safety glasses with side shields to protect against eye contact.

Hand protection: Wear suitable protective gloves in order to minimize skin contact.

Body protection: Wear general purpose work suit to protect skin from irritation.

Specific hygienic measures: Not applicable

9. Physical and chemical properties

9.1 Information about the basic physical and chemical properties

Physical state: Solid/powder, grain sizes 1 - 4 mm
Appearance: Creamy white
Odor: Odorless

Change in state

Boiling point: Not expedient; It’s a mineral product
Melting point: Approx. 900°C (1650°F), published values of container glass
Softening point: Approx. 700°C (1292°F), DIN ISO 7884-6
Flashpoint: Non-combustible
Explosion limit: Not applicable
Vapor pressure: Not applicable
Specific gravity: Approx. 240 kg/m³ depending on grain size, DIN 52110A
Solubility in water: Water-insoluble

9.2 Further information

Viscosity: Not applicable
Vapor density (air = 1): Not applicable

10. Stability and reactivity

10.1 Reactivity: Not reactive
10.2 Stability: Stable under normal temperature and pressure conditions
10.3 Possible danger reactions: Not applicable
10.4 Conditions to avoid: Temperatures above 900° C, product starts to melt
10.5 Incompatibility (material to avoid): Hydrofluoric acid (HF); material dissolves by generation of H2SiF6
10.6 Hazardous decomposition or by-products: Not applicable
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Date: 2016-01-08

11. Toxicological information

<table>
<thead>
<tr>
<th>Risk phrase</th>
<th>Acute toxicity (LD50/LC50):</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTECS</td>
<td>Unavailable</td>
</tr>
<tr>
<td>Inhale</td>
<td>Unknown</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Irritations may appear</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Irritations of the mouth, trachea and gastro-intestinal tract may appear</td>
</tr>
</tbody>
</table>

12. Environmental Information

<table>
<thead>
<tr>
<th>Risk phrase</th>
<th>Environmental Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1 Toxicity</td>
<td>Potential of hereditary genetic changes: None</td>
</tr>
<tr>
<td></td>
<td>Ecotoxicological effects:</td>
</tr>
<tr>
<td></td>
<td>Subacute to chronic toxicity:</td>
</tr>
<tr>
<td></td>
<td>Repeated dose toxicity:</td>
</tr>
<tr>
<td>12.2 Persistence and degradability</td>
<td>Biological nondegradable, as of mineral origin</td>
</tr>
<tr>
<td>12.3 Bioaccumulation</td>
<td>Not determinable, because it is not fat-soluble</td>
</tr>
<tr>
<td>12.4 Mobility in the soil</td>
<td>Not applicable</td>
</tr>
<tr>
<td>12.5 Results of the PBT- and vPvB-Evaluation</td>
<td>Resistance according to mineral materials</td>
</tr>
<tr>
<td>12.6 Further harmful effects</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

13. Disposal considerations

Disposal in accordance with federal, state and local regulation.

<table>
<thead>
<tr>
<th>Risk phrase</th>
<th>Disposal considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVV Refuse code:</td>
<td>170202</td>
</tr>
<tr>
<td>Refuse description:</td>
<td>Soda-Lime expanded glass granulate</td>
</tr>
<tr>
<td>AVV packing:</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

14. Transport information

<table>
<thead>
<tr>
<th>Risk phrase</th>
<th>Transport information</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN-Number</td>
<td>Irrelevant</td>
</tr>
<tr>
<td>14.2 proper UN-shipping name</td>
<td>Irrelevant</td>
</tr>
<tr>
<td>14.3 transport hazard class</td>
<td></td>
</tr>
<tr>
<td>Road transportation</td>
<td>GGVSE: Not a hazardous material</td>
</tr>
<tr>
<td></td>
<td>RID/ADR: Not applicable</td>
</tr>
<tr>
<td></td>
<td>Warning sign no.: Not applicable</td>
</tr>
<tr>
<td></td>
<td>ADN/ADNR: Not a hazardous material</td>
</tr>
<tr>
<td></td>
<td>IMDG/GGVSee: Not a hazardous material</td>
</tr>
<tr>
<td></td>
<td>IMO: Not a hazardous material</td>
</tr>
<tr>
<td></td>
<td>GGVSea-packing group: Not applicable</td>
</tr>
<tr>
<td></td>
<td>EMS: Not applicable</td>
</tr>
<tr>
<td></td>
<td>MFAG: Not applicable</td>
</tr>
<tr>
<td>Inland waterway transportation</td>
<td></td>
</tr>
<tr>
<td>Sea transport</td>
<td></td>
</tr>
<tr>
<td>Air transportation</td>
<td>ICAO/IATA: Not a hazardous material</td>
</tr>
<tr>
<td></td>
<td>ICAQ-packing group: Not applicable</td>
</tr>
</tbody>
</table>
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14.4 Packing group  Irrelevant
14.5 Environment danger  Irrelevant
14.6 Special precautions  Protect against humidity; maximum blowing pressure: 0,8 bar
14.7 Bulk commodity transport according to appendix II of the MARPOL-Agreement  Irrelevant

73/78 and according to IBC-Code

15. Legislation

15.1 Instructions for safety, health- and environmental protection/specific legislation for the product or mixture

Labelling in accordance to EG-guidelines
Danger symbol:  No labelling required
Danger defining components:  Not applicable
R-phrases:  Not applicable
S-phrases:  S 24/25 avoid contact with eyes and skin
Special identification of certain preparations:  Not applicable

German national guidelines
Classification according to „StörfallVO“:  Not applicable
Classification according to „VBF“:  Not applicable
Classification according to „TA-Luft“:  Not applicable
Water pollution classification:  Not hazardous to water, according to VwVwS appendix 3 No. 5 paragraph b
Resorption by Skin/Sensitizing:  No data available
Additional guidelines:  No labelling required (according to Canadian WHMIS Classification)

15.2 Evaluation of the product  Not applicable
This product is excluded of the REACH-Registration obligation according to EC 1907/2006 appendix V.11

16. Further information

This "Product Safety Information" replaces the Safety Data Sheet, because CellBlockEX is not a hazardous material according to the CLP regulation. We would like to point out that this is a voluntary service. There is no obligation for the manufacturer to make these documents available. The details are based on today’s state of our knowledge and serve to describe the product with regard to the correct safety regulations. It does not represent any assurance of product properties and does not give reasons for any contractual facts of the case. Users must determine if the information is suitable for their purposes.