

## 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<sup>®</sup> fire/heat/smoke suppressant

Date: 2016-01-08

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### 1. Chemical product and company identification

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- 1.1 Product Identifier:** CellBlockEX<sup>®</sup> 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 Road, 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

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- 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

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CellBlockEX<sup>®</sup> 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)

Ingredient:	Chemical formula	typical % by weight
Silicium Dioxide	SiO <sub>2</sub>	70-75
Sodium Oxide	Na <sub>2</sub> O	10-15
Calcium Oxide	CaO	7-11
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	0.5-5
Magnesium Oxide	MgO	0-5
Potassium Oxide	K <sub>2</sub> O	0-4
CAS no.:	65997-17-3	
EC no./EINECS no.:	266-046-0	
Index no.:	Not controlled/Not regulated	
Additional details:	Not applicable	

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### 4. First aid measures

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#### 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

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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

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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

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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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### 8. Exposure controls/personal protection

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#### 8.1 Controlled parameters

Exposure limits	General maximum dust emission (ASGW) Respirable dust: 1,25 mg/m <sup>3</sup> Total inhalable dust: 10 mg/m <sup>3</sup> Exceedance factor and category: 2 (II)
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*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

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#### 9.1 Information about the basic physical and chemical properties

Physical state:	Solid/powder, grain sizes 1 - 4 mm
Appearance:	Creamy white
Odor:	Odorless
<b>Change in state</b>	
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/m <sup>3</sup> depending on grain size, DIN 52110A
Solubility in water:	Water-insoluble
ph-value:	Approx. 8-11 (20°C / 100g/l), pH-meter
Danger of dust explosion:	Not applicable

#### 9.2 Further information

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

### 10. Stability and reactivity

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<b>10.1 Reactivity</b>	Not reactive
<b>10.2 Stability</b>	Stable under normal temperature and pressure conditions
<b>10.3 Possible danger reactions</b>	Not applicable
<b>10.4 Conditions to avoid</b>	Temperatures above 900° C, product starts to melt
<b>10.5 Incompatibility (material to avoid)</b>	Hydrofluoric acid (HF); material dissolves by generation of H <sub>2</sub> SiF <sub>6</sub>
<b>10.6 Hazardous decomposition or by-products</b>	Not applicable

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### 11. Toxicological information

Acute toxicity (LD50/LC50):	
RTECS:	Unavailable
Inhale:	Unknown
Skin contact:	Not applicable
Sensitization:	Not applicable
Eye contact:	Irritations may appear
Ingestion:	Irritations of the mouth, trachea and gastro-intestinal tract may appear

### 12. Environmental Information

<b>12.1 Toxicity</b>	Potential of hereditary genetic changes:	None
	Ecotoxicological effects:	Not applicable
	Subacute to chronic toxicity:	no data available
	Repeated dose toxicity:	Unknown
<b>12.2 Persistence and degradability</b>	Biological nondegradable, as of mineral origin	
<b>12.3 Bioaccumulation</b>	Not determinable, because it is not fat-soluble	
<b>12.4 Mobility in the soil</b>	Not applicable	
<b>12.5 Results of the PBT- and vPvB-Evaluation</b>	Resistance according to mineral materials	
<b>12.6 Further harmful effects</b>	Unknown	

### 13. Disposal considerations

Disposal in accordance with federal, state and local regulation.	
AVV Refuse code:	170202
Refuse description:	Soda-Lime expanded glass granulate
AVV packing:	Not applicable

### 14. Transport information

<b>14.1 UN-Number</b>	Irrelevant
<b>14.2 proper UN-shipping name</b>	Irrelevant
<b>14.3 transport hazard class</b>	
<b>Road transportation</b>	GGVSE: Not a hazardous material RID/ADR: Not applicable Warning sign no.: Not applicable
<b>Inland waterway transportation</b>	ADN/ADNR: Not a hazardous material
<b>Sea transport</b>	IMDG/GGVSee: Not a hazardous material IMO: Not a hazardous material GGVSea-packing group: Not applicable EMS: Not applicable MFAG: Not applicable
<b>Air transportation</b>	ICAO/IATA: Not a hazardous material ICAO-packing group: Not applicable

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<b>14.4 Packing group</b>	Irrelevant
<b>14.5 Environment danger</b>	Irrelevant
<b>14.6 Special precautions</b>	Protect against humidity; maximum blowing pressure: 0,8 bar
<b>14.7 Bulk commodity transport according to appendix II of the MARPOL-Agreement 73/78 and according to IBC-Code</b>	Irrelevant

### 15. Legislation

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#### 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
<b>German national guidelines</b>	
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

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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.