



We create chemistry

# Safety Data Sheet

## MELFLUX 6681 F MB

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(30857637/SDS\_GEN\_CA/EN)

### 1. Identification

#### Product identifier used on the label

**MELFLUX 6681 F MB**

#### Recommended use of the chemical and restriction on use

Recommended use\*: Product for construction chemicals  
Unsuitable for use: Uses other than recommended  
Suitable for use in industrial sector: cement industry  
Uses other than recommended

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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

Company:  
BASF Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

#### Emergency telephone number

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

Chemical family: Polymer based on: polycarboxylate ether

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### 2. Hazards Identification

#### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

#### Classification of the product

Combustible Dust      Combustible Dust (1)      Combustible Dust

#### Label elements

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Signal Word:  
Warning

Hazard Statement:  
May form combustible dust concentration in air.

### Hazards not otherwise classified

The product is under certain conditions capable of dust explosion.

## 3. Composition / Information on Ingredients

### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Silicon dioxide  
CAS Number: 7631-86-9  
Content (W/W):  $\geq 5.0$  -  $\leq 10.0\%$   
Synonym: Silicon dioxide

## 4. First-Aid Measures

### Description of first aid measures

**General advice:**  
Remove contaminated clothing.

**If inhaled:**  
If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**  
Wash thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**  
Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

**If swallowed:**  
Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

*Information on: Silicon dioxide*

*Symptoms: Overexposure may cause: rhinitis, irritation of the mucous membranes, irritates the eyes and respiratory tract, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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Hazards: No applicable information available.

### Indication of any immediate medical attention and special treatment needed

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### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

Additional information:  
Avoid whirling up the material/product because of the danger of dust explosion.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

### Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.  
For large amounts: Contain with dust binding material and dispose of.  
Avoid raising dust.

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## 7. Handling and Storage

### Precautions for safe handling

Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:  
Dust can form an explosive mixture with air.

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### Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Avoid all sources of ignition: heat, sparks, open flame.

Protect from temperatures above: 40 °C

The packed product must be protected against exceeding the indicated temperature.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

|                 |            |           |  |
|-----------------|------------|-----------|--|
| Silicon dioxide | OSHA Z3:   | TWA value | 20 millions of particles per cubic foot of air ;   |
|                 | OSHA Z3:   | TWA value | 0.8 mg/m <sup>3</sup> ; The exposure limit is calculated from the equation, 80mg/m <sup>3</sup> /(%SiO <sub>2</sub> ), using a value of 100% SiO <sub>2</sub> . Lower percentages of SiO <sub>2</sub> will yield higher exposure limits. |
|                 | ACGIH, US: | TWA value | 10 mg/m <sup>3</sup> Inhalable particles ;   |
|                 | ACGIH, US: | TWA value | 3 mg/m <sup>3</sup> Respirable particles ;   |
|                 | OSHA Z3:   | TWA value | 15 mg/m <sup>3</sup> Total dust ;  |
|                 | OSHA Z3:   | TWA value | 5 mg/m <sup>3</sup> Respirable fraction ;  |
|                 | OSHA Z3:   | TWA value | 50 millions of particles per cubic foot of air Total dust ;  |
|                 | OSHA Z3:   | TWA value | 15 millions of particles per cubic foot of air Respirable fraction ;   |
|                 | OSHA Z3:   | TWA value | 15 millions of particles per cubic foot of air Respirable fraction ;   |

### Personal protective equipment

#### Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

#### General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

|                      |  |
|----------------------|--|
| Form:                | powder   |
| Odour:               | odourless to musty   |
| Odour threshold:     | No applicable information available.                         |
| Colour:              | Yellowish to brownish  |
| pH value:            | approx. 6.5 - 8.5<br>( 20 %(m), 20 °C)                       |
| Melting temperature: | The substance / product decomposes therefore not determined. |

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|   |  |                            |
|---|--|----------------------------|
| boiling temperature:                                | not applicable   |                            |
| Boiling range:                                      | not applicable   |                            |
| Sublimation point:                                  | No applicable information available.   |                            |
| Flash point:  | Non-flammable.   |                            |
| Upper explosion limit:                              | No applicable information available.   |                            |
| Autoignition:                                       | 360 °C<br>The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.  | (BS EN 50281-2-1 Method B) |
| Vapour pressure:                                    | The product has not been tested.   |                            |
| Density:  | not applicable   |                            |
| Relative density:                                   | No applicable information available.   |                            |
| Bulk density:                                       | approx. 300 - 600 kg/m <sup>3</sup>  |                            |
| Vapour density:                                     | The product is a non-volatile solid.   |                            |
| Partitioning coefficient n-octanol/water (log Pow): | Study does not need to be conducted.   |                            |
| Self-ignition temperature:                          | 155 °C<br>The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Data for powdery solid. No self ignition was observed up to the specified temperature. | (VDI 2263, sheet 1, 1.4.2) |
| Thermal decomposition:                              | not determined   |                            |
| Viscosity, dynamic:                                 | not applicable, the product is a solid   |                            |
| Viscosity, kinematic:                               | No applicable information available.   |                            |
| Particle size:                                      | No data available.   |                            |
| Solubility in water:                                | soluble  |                            |
| Miscibility with water:                             | not applicable   |                            |
| Solubility (quantitative):                          | No applicable information available.   |                            |
| Solubility (qualitative):                           | No applicable information available.   |                            |
| Evaporation rate:                                   | The product is a non-volatile solid.   |                            |

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

Minimum ignition energy:

30 - 100 mJ, Inductivity: 1 mH, Grain size distribution: < 63 µm

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

Dust explosion hazard.

### Conditions to avoid

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Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, open flame. See SDS section 7 - Handling and storage.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents, strong reducing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

not determined

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Based on available data, the classification criteria are not met.

#### Oral

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Inhalation

Type of value: LC50

Species: rat

Exposure time: 4 h

not determined

#### Dermal

Type of value: LD50

Species: rat

not determined

#### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Irritation / corrosion

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Assessment of irritating effects: No irritation is expected under intended use and appropriate handling. Based on available data, the classification criteria are not met.

### Skin

Species: rabbit

Result: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

### Eye

Species: rabbit

Result: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

### Sensitization

Assessment of sensitization: No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

The product has not been tested. The statement has been derived from the properties of the individual components.

### Aspiration Hazard

not applicable

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available data, the classification criteria are not met.

### Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

### Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

### Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

### Teratogenicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

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## **12. Ecological Information**

### **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms.

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The product has not been tested. The statement has been derived from the properties of the individual components.

### Toxicity to fish

LC50 (96 h) > 10 - 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

### Aquatic invertebrates

LC50 (48 h), daphnia (other)  
not determined

### Aquatic plants

EC50 (72 h), algae (other)  
not determined

### Chronic toxicity to fish

No data available.

### Chronic toxicity to aquatic invertebrates

No data available.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

other

bacteria/EC50 (0.5 h):  
not determined

## Persistence and degradability

### Assessment biodegradation and elimination (H2O)

Not readily biodegradable (by OECD criteria).

## Bioaccumulative potential

### Assessment bioaccumulation potential

No data available.

## Mobility in soil

### Assessment transport between environmental compartments

No data available.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

### **Container disposal:**

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

The packaging must not be re-used. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.



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### 14. Transport Information

**Land transport**  
TDG

Not classified as a dangerous good under transport regulations

**Sea transport**  
IMDG

Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

#### Federal Regulations

**Registration status:**

Chemical          DSL, CA          released / listed

Product contains a component which must fulfil the criteria as a Polymer of low concern (PLC) under the national regulation.

**NFPA Hazard codes:**

Health: 1          Fire: 1          Reactivity: 0          Special:

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2022/02/16

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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END OF DATA SHEET