



We create chemistry

# Safety Data Sheet

## MELFLUX 5581 F MB

Revision date : 2016/03/18  
Version: 2.0

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(30,857,638/SDS\_GEN\_CA/EN)

### 1. Identification

#### Product identifier used on the label

**MELFLUX 5581 F MB**

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

Recommended use\*: Raw material

Suitable for use in industrial sector: cement industry

\* 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

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

Signal Word:  
Warning

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Hazard Statement:

May form combustible dust concentration in air.

### Hazards not otherwise classified

No applicable information available.

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## 3. Composition / Information on Ingredients

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

This product does not contain any components classified as hazardous under the referenced regulation.

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air.

#### If on skin:

Wash thoroughly with soap and water.

#### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

#### If swallowed:

Rinse mouth and then drink plenty of water.

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

Hazards: No applicable information available.

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

#### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

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### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

### 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

### Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

### Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Wear eye/face protection. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

### Environmental precautions

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

### Methods and material for containment and cleaning up

Nonsparking tools should be used.

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## 7. Handling and Storage

### Precautions for safe handling

No applicable information available.

### Protection against fire and explosion:

Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

### Conditions for safe storage, including any incompatibilities

No applicable information available.

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. The substance/product may cake at higher temperatures/pressure.

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Storage class according to TRGS 510 (originally VCI, Germany): (11) Combustible solids.  
Protect from temperatures above: 40 °C  
The packed product must be protected against exceeding the indicated temperature.

### 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

#### Advice on system design:

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

#### Personal protective equipment

##### Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

##### Hand protection:

Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

##### Eye protection:

Safety glasses with side-shields.

##### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### General safety and hygiene measures:

When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

### 9. Physical and Chemical Properties

Form:	powder
Odour:	characteristic
Odour threshold:	No applicable information available.
Colour:	Yellowish to brownish
pH value:	approx. 6.5 - 8.5 ( 20 %(m), 20 °C)
Melting temperature:	The substance / product decomposes therefore not determined.
boiling temperature:	not applicable
Sublimation point:	No applicable information available.
Flash point:	not applicable
Autoignition:	360 °C
Vapour pressure:	The product has not been tested.

(BS EN 50281-2-1  
Method B)

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Density:	not applicable	
Bulk density:	approx. 300 - 550 kg/m <sup>3</sup>	
Vapour density:	The product is a non-volatile solid.	
Self-ignition temperature:	155 °C	(VDI 2263, sheet 1, 1.4.2)
	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.	
Thermal decomposition:	> 180 °C	
	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	No applicable information available.	
Solubility in water:	( 20 °C)	
	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.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

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

No applicable information available.

### Conditions to avoid

See MSDS section 7 - Handling and storage.

### Incompatible materials

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

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

> 180 °C

No decomposition if stored and handled as prescribed/indicated.

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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

No applicable information available.

##### Inhalation

No applicable information available.

##### Dermal

No applicable information available.

##### Irritation / corrosion

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

##### Sensitization

Assessment of sensitization: Based on available Data, the classification criteria are not met.

#### Chronic Toxicity/Effects

##### Repeated dose toxicity

Assessment of repeated dose toxicity: Prolonged exposure may cause chronic effects. The product has not been tested. The statement has been derived from the properties of the individual components.

##### Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

##### Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

##### Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

##### Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

##### Other Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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### Symptoms of Exposure

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Based on available Data, the classification criteria are not met. There is a high probability that the product is not acutely harmful to aquatic organisms.

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O)

Inherently biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.

The polymer component of the product is poorly biodegradable.

### Bioaccumulative potential

Assessment bioaccumulation potential

Discharge into the environment must be avoided.

### Mobility in soil

Assessment transport between environmental compartments

No data available.

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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## 13. Disposal considerations

### Waste disposal of substance:

Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

### Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## 14. Transport Information

### Land transport

TDG

Not classified as a dangerous good under transport regulations

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### 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

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## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2016/03/18

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