

Material Safety Data Sheet

Printing date 05/15/2015

Reviewed on 04/28/2015

1 Identification

- **Product identifier**
- **Trade name: FM6**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Manufacturer/Supplier:**
Magnesita Refractories Company
425 S. Salem Church Road
York, PA 17408
- **Information department:** Compliance Department: 717-793-5463
- **Emergency telephone number:**
Chemtrec: 800-424-9300
Magnesita: 717-793-5463

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Carcinogenicity:** Not Applicable

3 Composition/information on ingredients

- **Chemical characterization: Substances**

| • CAS No. Description | | |
|------------------------------|-----------------|---------|
| 1309-48-4 | magnesium oxide | 50-100% |
| 1305-78-8 | calcium oxide | 25-50% |

- **Chemical characterization: Mixtures**
- **Description:**
Mixture: consisting of the following components.
Refer to product data sheet for more details.

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
Seek medical treatment in case of complaints.
- **After skin contact:** Wash with water and soap
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
The fire fighting measures given are for packaging and surrounding materials.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling** Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in dry conditions.
Store in a cool place.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

1309-48-4 magnesium oxide (50-100%)

| | |
|-----------|--|
| PEL (USA) | Long-term value: 15* mg/m ³ fume; *total particulate |
|-----------|--|

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| | |
|---|---|
| TLV (USA) | Long-term value: 10* mg/m ³ *as inhalable fraction |
| EL (Canada) | Short-term value: 10** mg/m ³ Long-term value: 10* 3** mg/m ³ *inhalable fume; **respirable dust and fume |
| EV (Canada) | Long-term value: 10 mg/m ³ inhalable |
| 1305-78-8 calcium oxide (25-50%) | |
| PEL (USA) | Long-term value: 5 mg/m ³ |
| REL (USA) | Long-term value: 2 mg/m ³ |
| TLV (USA) | Long-term value: 2 mg/m ³ |
| EL (Canada) | Long-term value: 2 mg/m ³ |
| EV (Canada) | Long-term value: 2 mg/m ³ |

• **Additional information:**

The lists that were valid during the creation were used as basis.

Provide effective ventilation or local exhaust during heat-up or dust emitting operations (e.g. cutting).

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

• **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Whenever dust is generated

NIOSH-approved respirator is recommended if exposure limits are exceeded.

• **Protection of hands:**



Protective gloves

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Eye protection:**



Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

| | |
|------------------|-----------------|
| Form: | Solid |
| Color: | Brown |
| Odor: | Characteristic |
| Odour threshold: | Not determined. |

· **pH-value:** Not applicable.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

| | |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

· **Density:** Not determined.

· **Relative density** Not determined.

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

Water: Slightly soluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not applicable.

Kinematic: Not applicable.

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

· **Additional information:**

Preheater burners must be properly adjusted to avoid the formation of hazardous decomposition products associated with the incomplete combustion of preheater fuel.

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11 Toxicological information

- **Information on toxicological effects**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Carcinogenic categories**

| |
|---|
| · IARC (International Agency for Research on Cancer) |
|---|

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

| |
|--|
| · NTP (National Toxicology Program) |
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| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

| |
|---|
| · OSHA (Occupational Safety & Health Administration) |
|---|

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Additional Information:**

This product contains lime which will hydrate in contact with water and generate heat. Care should therefore be taken in the event of co-disposal with combustible materials.

14 Transport information

- | | |
|---------------------------------------|-----------------|
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |

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· **Remarks:** This product is not a hazardous material as defined in 49 U.S. CFR Part 172. It is not defined as hazardous in the IATA Regulations, Section 4.2. No specific precaution is required for the transport of refractory products.

· **UN "Model Regulation":** -

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

| | |
|-----------|-----------------|
| 1309-48-4 | magnesium oxide |
|-----------|-----------------|

| | |
|-----------|---------------|
| 1305-78-8 | calcium oxide |
|-----------|---------------|

16 Other information

This product is a mixture of calcium and magnesium oxide. It is also referred to as dead burned dolomite or doloma (CAS No. 37247-91-9) and calcinated dolomite (CAS No. 83897-84-1).

· **Recommended restriction of use** For professional use only

· **Department issuing SDS:** Compliance Department

· **Date of preparation / last revision** 05/15/2015 / 6

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