



Safety Data Sheet

Printing date 10/06/2017

Reviewed on 10/06/2017

1 Identification

Product identifier

Trade name: BF-510

Manufacturer/Supplier:

Magnesita Refractories Company
425 S. Salem Church Road
York, PA 17408
USA

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



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

Hazard pictograms



GHS05

Signal word Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280 Wear eye protection / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

Carcinogenicity: Not Applicable

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3 Composition/information on ingredients

Chemical characterization: Substances**CAS No. Description**

1309-48-4 magnesium oxide	25-50%
1305-78-8 calcium oxide	25-50%
12002-43-6 Gilsonite	<5%
Petroleum Distillate	<1%

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.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

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.

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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

Handling:**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**PEL (USA) Long-term value: 15* mg/m³
fume; *total particulateTLV (USA) Long-term value: 10* mg/m³
*as inhalable fractionEL (Canada) Short-term value: 10** mg/m³
Long-term value: 10* 3** mg/m³
*inhalable fume;**respirable dust and fumeEV (Canada) Long-term value: 10 mg/m³
inhalable**1305-78-8 calcium oxide**PEL (USA) Long-term value: 5 mg/m³REL (USA) Long-term value: 2 mg/m³TLV (USA) Long-term value: 2 mg/m³EL (Canada) Long-term value: 2 mg/m³EV (Canada) Long-term value: 2 mg/m³**Additional information:**

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

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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.

Avoid contact with perspiring skin.

Breathing equipment:

Whenever dust is generated

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.

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:

Safety glasses are recommended during normal use of this product. Safety goggles are recommended when excessive dust is generated during use.

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Solid
Color:	Light brown
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value: Not applicable.

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined.

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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.**Vapor 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

Reactivity No further relevant information available.**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:**

Preheating decomposition/combustion products may vary depending on burning conditions, temperature, heating rate, and oxygen levels. The following decomposition products might be found depending on these conditions: alkanes, aromatic, oxygenated, phenolic, polynuclear aromatic, and nitrogenated compounds; oxides of carbon.

Additional information:

Carbon monoxide and aldehydes, including formaldehyde, are not present in this product as delivered. However, they may occur as hazardous decomposition products associated with the incomplete combustion of preheater fuel and emissions from this refractory product. Preheater burners must be properly adjusted to provide optimum combustion conditions. The formation of hazardous decomposition products can be minimized by following the recommended preheat schedule.

11 Toxicological information

Information on toxicological effects**Primary irritant effect:****on the skin:** May cause irritation to skin and mucous membranes

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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)

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.**Behavior in environmental systems:****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.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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.**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": Void

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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

Petroleum Distillate

TSCA new (21st Century Act) (Substances not listed)**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS05

Signal word Danger**Hazard statements**

H318 Causes serious eye damage.

Precautionary statements

P280 Wear eye protection / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

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** 10/06/2017 / 7**Abbreviations and acronyms:**

Eye Dam. 1: Serious eye damage/eye irritation – Category 1