



EMERGENCY CARD

Magnesium oxide

1) Chemical and company identification

Calcined magnesia, magnesia, calcined magnesite.

Concentration: 54% Mg

Class: None.

U.N.: Not regulated.

N°. CAS: 1309-48-4

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2) Identification of hazards

This substance is not classified as dangerous under EU legislation.

Non-flammable beige powder, but can react dangerously with strong acids, bromine pentafluoride, chlorine trifluoride, phosphorus pentachloride

Inhalation of particles should be avoided; even if they are inert, they can affect the airways.

Precautionary statements

Preventing

P260 Do not breathe dust.

Other dangers

None known.

3) Exposure controls and personal protection

Magnesium Oxide

CO OEL

Time-weighted average (TWA) 10 mg/m³

Form of exposure: Inhalable fraction.

Dust

CO OEL

Time-weighted average (TWA) 3 mg/m³

Form of exposure: Breathable particles.

Time-weighted average (TWA) 10 mg/m³

Form of exposure: Inhalable particles.

Ventilation system:

A local and/or general exhaust aeration system is recommended to keep employee exposures below exposure limits. Local exhaust ventilation is generally preferred because emissions of the pollutant at its source can be controlled, preventing its dispersion in the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Best Practice Manual, latest edition, for details.*

Personal respirators (NIOSH approved):

If the exposure limit is exceeded a particulate respirator half dust/fog mask shall be used if it is exposed 10 times above the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator provider, Anything that is lower. A full dust/fog mask particulate respirator shall be used if 50 times above the exposure limit or maximum use concentration specified by the appropriate regulatory agency or respirator provider, whichever is lower. For emergencies or cases where exposure levels are not known, use a full positive pressure mask, a self-contained respirator. **WARNING:** Self-contained respirators do not protect workers in oxygen-deficient atmospheres.

Hand protection

Submergence

Material of the glove:	Nitrile rubber
Thickness of the glove:	0,11 mm
Time of penetration:	>480 min.

Spatter

Material of the glove:	Nitrile rubber
Thickness of the glove:	0,11 mm
Time of penetration:	>480 min.

Protection of the eyes:

Wear protective chemical goggles. Keep an eye wash fountain and emergency showers in the work area.

4) Stability and reactivity

Conditions to avoid: exposure to moisture.

Materials to avoid: strong acids, bromine pentafluoride, chlorine trifluoride, phosphorus pentachloride, aluminum powder (heat), aniline perchlorate, magnesium powder (heat), sulfur (heat).

Dangerous decomposition products are not known.

Additional information: stable under normal conditions of use and storage. Absorbs carbon dioxide and moisture from the air.

5) **First aid**

After inhalation: fresh air. In case of breathing difficulties, have the patient inhale oxygen. Move to medical center.

After skin contact: wash with plenty of water for 20 minutes. Remove contaminated clothing.

After eye contact: rinse for 20 minutes with running water.

After ingestion: rinse your mouth and spit out fluids. If the patient is conscious, ask him to drink 1 glass of water. In case of spontaneous vomiting, keep the patient face down with the head lower than the chest to prevent vomiting from entering the airways.

6) **Firefighting**

Explosive properties: not classified as explosive.

Oxidizing properties: none.

Ignition temperature: not combustible. Possibility of formation of dangerous vapors by fire in the environment.

Suitable extinguishing media: Select fire extinguishing measures according to surrounding conditions. In case of fire use dry chemical powder, CO2 or spray water. There are no extinguishing agents limitations for this substance/mixture.

7) **Spills**

Avoid inhalation of dust, ventilate the area of leakage or spill.

Cover the sewers. Collect and vacuum spills. Note possible restrictions on materials (*see indications in section 4*). Dry collect and proceed to waste disposal. Clarify. Avoid the formation of dust. Do not flush waste down the drain.

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