



## **MAGNESIUM OXIDE PHARMA GRADE TECHNICAL DATA SHEET**

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### **SYNONYMS**

Oxomagnesium, Periclase, Maglite, Sea water magnesia, Mag-Ox

### **CHEMICAL STRUCTURE AND IDENTITY**

Molecular formula	MgO
Molecular weight	40.3044 g/mol
CAS number	1309-48-4
EINECES number	215-171-9
HS code	25199040

### **SPECIFICATIONS**

MgO	98.00% Min
Calcium as CaO	1.0% Max
Iron as Fe <sub>2</sub> O <sub>3</sub>	0.1% Max
Soluble in Water	2.0% Max
Insoluble in Acid	0.1%Max
pH	8-10
Sulphate	1.0% Max
Heavy Metals as Pb	0.003% Max
Chloride	0.15% Max
Sulphate	1.0% Max
Cobalt	0.0010% Max
Nickel	0.0002% Max
Loss of Ignition	8.0% Max

### **PHYSICAL PROPERTIES**

Boiling Point	3600°C
Melting Point	2852°C
Density	3.58 g/cm <sup>3</sup>

### **DESCRIPTION**

Magnesium Oxide is characterized by white powder appearance and odorless smell. In its solid form, magnesium oxide can be easily soluble in acid.

### **PACKAGING**

Available in 25kg and 50kg bags. Other packaging may be considered on request.



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#### STORAGE AND HANDLING

Avoid inhalation of dust. Clean area frequently to avoid dust build-up. Keep away incompatible materials such as interhalogens and strong acids. Keep in tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

#### SAFETY

Wear protective gloves and clean body-covering clothing. Use chemical safety goggles. Maintain eye wash fountain and quick drench facilities in work area.

#### FIRST AID MEASURES

**Inhalation:** Remove victim to fresh air. Get medical attention for any breathing difficulty.

**Skin contact:** Not expected to cause a problem. However, if irritation occurs, flush affected area with water. If irritation persists, obtain medical attention.

**Eye contact:** Immediately flush eyes with water for at least 10 minutes. Get medical advice if irritation develops.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

#### SPILL AND DISPOSAL

Ventilate area of leak or spill. Wear appropriate personal protective equipment. Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

#### CONTACT

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