



# Product Specification

## Product Name: **MAGNESIUM OXIDE Heavy LR**

Alternate Name(s) Magnesium (II) oxide; magnesia.

### Description

White powder.

### Properties

Chemical Formula: MgO

Molecular Weight: 40.30

Product Code: ML035

CAS No. 1309-48-4

### General Information:

Slightly soluble in water. Soluble in acids and ammonium salt solution. Incompatible with acids and interhalogens; reacts violently with chlorine trifluoride and  $PCl_5$ . Non combustible.

### Quality Specification

Assay: 98.0 - 100.5%

### Specific Properties and Impurities [Typical levels]:

Specific Gravity	350 g/L
Melting Point	2800 °C
Boiling Point	3600 °C
Loss on ignition at 900 °C	< 8.0%
Alkali and water soluble salts	≤ 2.0%
Insoluble in acid	≤ 0.10%
Arsenic	≤ 0.0004%
Calcium	≤ 1.5%
Heavy metals (as Pb)	≤ 0.003%
Iron	≤ 0.07%
Chloride	≤ 0.1%
Sulfates	≤ 1.0%

### Hazard and Safety Data

UN Group:	None Allocated
Class:	None Allocated
UN Number:	None Allocated
Hazchem code:	None Allocated
CS MSDS Code:	1CH43
Poison schedule:	Not Scheduled
Emergency	
Procedure Guide No.:	N/A

Not classified as hazardous according to the criteria of ASCC.

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