
Material Safety Data Sheet

Product Name	<u>Magnesium oxide light</u>
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Magnesium oxide Light**Synonyms:** Magnesia**CAS-No:** 1309-48-4**EC-No.:** 215-171-9**Molecular Formula:** MgO

REACH Registration No: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

1.2. Relevant identified uses of the substance or mixture and uses advised against:**Recommended Use:** Laboratory chemicals, manufacture of substances**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad,
Email: info@finarchemicals.com
Web: www.finarchemicals.com
- **E-Mail Address** safety@finarchemicals.com; info@finarchemicals.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 – 40040085

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SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:**Labelling (REGULATION (EC) No 1272/2008)**

Precautionary statements

Prevention

P260 Do not breathe dust.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances:** Magnesium oxide light**3.2. Mixtures:**

Component	CAS-No	EC-No.	Weight %
Magnesium oxide light	1309-48-4	215-171-9	98

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures:**

- **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

- **If inhaled**

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

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- **If Contact with skin**
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
 - **In case of eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention.
 - **If swallowed**
Do not induce vomiting. Obtain medical attention.
- 4.2. Most important symptoms and effects, both acute and delayed:**
Irritant effects, Diarrhoea
- 4.3. Indication of any immediate medical attention and special treatment needed:**
No Data Available

SECTION 5: FIREFIGHTING MEASURES

- 5.1. Extinguishing media:**
Suitable Extinguishing Media- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media- For this substance/mixture no limitations of extinguishing agents are given.
- 5.2. Special hazards arising from the substance or mixture:**
 Non-combustible.
 Magnesium oxide
 Ambient fire may liberate hazardous vapours.
 Containers may explode when heated.
- 5.3. Advice for firefighters:**
 Special protective equipment for firefighters:
 In the event of fire, wear self-contained breathing apparatus.
- 5.4 Further Information:**
 Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:**
 Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
 Advice for emergency responders: Protective equipment see section 8.
- 6.2. Environmental precautions:**
 Do not let product enter drains.
- 6.3. Methods and material for containment and cleaning up:**
 Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- 6.4. Reference to other sections:**
 For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:**
 Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.
 Do not breathe dust.
- 7.2. Conditions for safe storage, including any incompatibilities:**
 Keep containers tightly closed in a dry and well-ventilated place. Air and moisture sensitive.
- 7.3. Specific end use(s):**
 Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control parameters:**
 Contains no substances with occupational exposure limit values.
- 8.2. Exposure Controls:**
Appropriate Engineering Controls:
 Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

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Personal Protective Equipment:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye & Face Protection

Safety glasses

Hand Protection

Natural/Nitrile/ Neoprene rubber hand glove

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental Exposure Controls

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** 10.3 saturated solution
- **Melting Point:** 2800 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** 0 hPa at 20 °C
- **Relative Density:** No data available

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- **Density:** 3.58 g/cm³ at 25 °C
- **Auto-Ignition Temperature:** Not combustible
- **Decomposition Temperature:** No data available
- **Volatility:** No data available
- **Bulk Density:** ca.100 kg/m³
- **Viscosity, dynamic:** No data available
- **Viscosity, Kinematic:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Specific Gravity:** 3.580
- **Flash Point:** Does not flash
- **Water Solubility:** 208 g/l at 20 °C

9.2. Other information:**Molecular Formula:** MgO**Molecular Weight:** 40.29 g/mol**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity:**

No data available

10.2. Chemical stability:

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions:

Exothermic reaction with: halogen-halogen compounds, acids

10.4. Conditions to avoid:

Air sensitive. Exposure to moisture

10.5. Incompatible materials:

Strong oxidizing agents, Strong acids, Water

10.6. Hazardous decomposition products:

Magnesium oxide

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral toxicity

Symptoms: In high doses: Diarrhoea

Acute inhalation toxicity

Symptoms: slight mucosal irritations

Acute dermal toxicity

No data available

Skin irritation

No data available

Eye irritation

No data available

Sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further Information:

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

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Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish

No data available

Toxicity to daphnia and other aquatic invertebrates

No data available

Toxicity to algae

No data available

Toxicity to bacteria

No data available

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulate potential:

No data available

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

National legislation
Storage class 10 - 13

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

Created: 16/02/2021

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