

According to 29 CFR 1910.1200

MAGNESIUM OXIDE

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SECTION 1.- IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Product form Solid

Substance name Magnesium oxide

CAS No. 1309-48-4 Formula MgO

Synonyms Magnesia, calcined magnesite.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture According to the Product Technical Data Sheet:

1.3 Details of the supplier of the safety data sheet

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Hermosillo, Sonora, México. C.P. 83297 Tel. 011 (662) 251-0010 / (662) 251-0316

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1.4 Emergency telephone number

Emergency number CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

SECTION 2.- HAZARD IDENTIFICATION

2.1 GHS-US classification

This substance does not meet the criteria for classification.

2.2 Label elements

GHS-US labelling

Hazard pictograms (GHS-US)

Signal Word (GHS-US):

Hazard statement (GHS-US):

Precautionary statements (GHS-US):

Not applicable

Not applicable

Not applicable

Not applicable

No data available

No data available

SECCIÓN 3.- COMPOSITION / INFORMATION OF INGREDIENTS

3.1 Substance

NameProduct identifier%Magnesium oxide(CAS No.) 1309-48-4> 97.5

3.2 MixtureNot applicable

SECCIÓN 4.- FIRST AID MEASURE

4.1 Description of first aid measure

First-aid measures generalCheck vital signs. Unconscious: keep airways clear and provide breathing assistance.

Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform CPR. Conscious



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victim with breathing difficulty: semi-upright position. Victim in shock: lying on back with legs slightly elevated. Vomiting: prevent choking or aspiration. Avoid cooling by covering the victim (without heating). Continue monitoring the victim. Provide psychological support. Keep the victim calm, and avoid physical strain. Depending on the victim's condition: seek medical attention/hospital. Never give anything by mouth to an unconscious person. If

feeling unwell, seek medical attention (if possible, show the label).

First-aid measures after eye contact Wash immediately with water for an extended period (at least 15 minutes), keeping eyelids

open. Seek medical attention immediately.

First-aid measures after skin contact Remove contaminated clothing and immediately wash the entire exposed skin area with

plenty of water. If discomfort occurs or in case of doubt, consult a physician.

oxygen or perform artificial respiration if necessary. If discomfort occurs or in case of doubt,

consult a physician.

First-aid measures after ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Drink

plenty of water. Call a doctor if the person feels unwell.

4.2 Most important

Symptoms/injuries after inhalation Irritation.
Symptoms/injuries after skin contact
Symptoms/injuries after eye contact
Symptoms/injuries after ingestion Irritation.
Irritation.

Chronic symptoms No data available.

4.3 Indications of any immediate medical attention and special treatment needed

No data available

SECCIÓN 5.- FIREFIGHTING MEASURES

5.1 Extinguishing media

water spray, dry chemical, carbon dioxide, or chemical foam. Do not leave water in containers.

Unsuitable extinguishing media No data available 5.2 Special hazard arising from the substance or mixture

Fire hazardNon-combustible. May produce toxic carbon monoxide fumes in case of fire.

Explosion hazard See section 10.

Reactivity Magnesium oxide reacts violently or ignites with interhalogens such as chlorine trifluoride (CIF3)

or bromine pentafluoride (BrF5), and in an incandescent manner with phosphorus pentachloride

(PCI5).

5.3 Advice for firefighters

Precautionary measures fire Non-combustible.

Firefighting instructions Act according to the surrounding fire. Evacuate or isolate the area. Restrict access to unnecessary

personnel without proper protection. Position oneself upwind. Use personal protective equipment. Remove containers from the fire, if possible, without risk. Keep containers cool by applying water

from a safe distance.

Protection during firefighting Firefighters should wear full protective clothing including self-contained breathing apparatus.

SECCIÓN 6.- ACCIDENTAL RELEASE MEASURES



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6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment See section 8.

Emergency procedures Wash contaminated clothing. In case of hazardous reactions: stay upwind. In case of reactivity

risk: consider evacuation. Do not attempt to act or respond to an emergency without

appropriate protective equipment.

Measures in case of dust release Prevent dust cloud formation. Dust cloud production: dust suit. In case of dust production: stay

upwind. Close doors and windows of facilities.

6.1.2 For emergency responders

Use appropriate protective equipment (see section 8) to prevent any possible contamination of the skin, eyes, and clothing. Avoid contact with skin, eyes, and clothing.

6.2 Environmental precautions

Keep the product away from drains and surface or groundwater. Contain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Method for containmentContain and collect any contaminated material, avoiding the generation of dust. Prevent runoff

into sewers, waterways, or disposal in areas where surface or groundwater may be affected.

Method for cleaning up Contaminated material should be placed in a container for disposal following local regulations

(refer to section 13).

6.4 Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection

SECTION 7.- HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling Avoid contact with skin and eyes. Prevent the formation of dust. Provide adequate ventilation

in areas where vapors, aerosols, fumes, or dust may form. Keep away from ignition sources. No smoking. Keep away from heat and ignition sources. Take normal preventive fire protection

measures. Avoid the accumulation of electrostatic charges.

Hygiene measures Handle according to safety regulations for chemical products. Wearing closed work clothing

is an additional requirement in the personal protective equipment instructions. While in use, eating, drinking, or smoking is prohibited. Wash hands and/or face before breaks and at the end of work. Gloves should be regularly checked and inspected before use. Replace if necessary (e.g., if small holes are present). Remove contaminated clothing immediately.

Wash contaminated clothing before reuse. Store work clothing separately.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Store only in the original container in a cool, well-ventilated area, away from incompatible

materials. Keep the container tightly closed when not in use. Recommended storage

temperature: 15 – 25°C.

Incompatible products

See section 10.

Heat-ignition

No data available.

Storage area

Store only in the original container in a cool, well-ventilated area, away from incompatible

materials. Recommended storage temperature: 15 – 25°C.

Special rules on packaging

Keep the container tightly closed when not in use. Store in a tightly sealed, dry, clean, and

properly labeled container. Comply with applicable regulatory requirements.



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Packaging materials

No additional information is available

No data available

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

7.3 Specific end use(s)

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Magnesium oxide 1309-48-4	10 mg/m ³	No data available	No data available

8.2 Exposure controls

Appropriate engineering controls

Eye wash stations and safety showers should be available nearby during use/handling. Provide exhaust ventilation or other engineering controls to keep vapor or dust concentrations (total/respirable) below the applicable occupational exposure limits indicated above. It is recommended that all dust control equipment such as local ventilation and material handling systems involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient atmosphere. Ensure that dust handling systems (such as exhaust ducts, dust collectors, containers, and processing equipment) are designed to prevent dust from escaping into the work area (i.e., no equipment leaks).

Personal protective equipment

Protective goggles with side shields, gloves, body protection, apron, protective boots,

protective suit, head protection, and particle filter.

Material for protective clothing

Hand protection

Nitrile rubber (NBR).

Use appropriate gloves. Suitable gloves are chemically resistant gloves tested for this purpose. For special uses, it is recommended to verify with the supplier of the protective gloves regarding their resistance to the above-mentioned chemicals. Material type: NBR (Nitrile

rubber). Material thickness: >0.11 mm. Permeation: level 6 (> 480 minutes).

Eye protection

Use protective goggles with side shields.

Skin and body protection

Select body protection depending on the activity and potential exposure, e.g., aprons,

protective boots, chemical-resistant protective suits, and head protection (helmet).

Respiratory protection

Particle filter: P1 (filters at least 80% of atmospheric particles, color code: white). Respiratory

protection is necessary for Dust formation.

Environmental exposure controls

Avoid release to the environment.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Solid Physical state **Appearance** Powder Odor Odorless Color White Molecular mass 40.3 g/mol **Odor threshold** No data available No data available pН No data available pH solution

Relative evaporation rate (butyl acetate = 1) No data available

2000 00

Melting/Freezing point

2800 °C



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Boiling point 3600 °C

No data available Flash point No data available **Self-ignition temperature Decomposition temperature** No data available No data available Flammability (solid, gas) Vapor pressure No data available No data available Relative vapor density at 20 °C Relative density 3.58 (20 °C) **Bulk density** 100 kg/m³

Solubility Insoluble in water Log Pow No data available Log Kow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available No data available **Explosive properties Oxidizing properties** No data available **Explosive limits** No data available

9.2 Other information

No additional information is available

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity This material is not reactive under normal environmental conditions.

10.2 Chemical stability Stable under normal use and storage conditions. It is hygroscopic and absorbs CO2 and

water from the air.

Strong reactions with acids

10.3 Possibility of hazardous reactions

10.6 Hazardous decomposition products

10.4 Conditions to avoidAir, moisture, and incompatibles.

10.5 Incompatible materials Acids, interhalogens, phosphorus pentachloride, and chlorine trifluoride.

SECTION 11.- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely routes of exposure Skin and eye contact, inhalation, and ingestion.

Acute toxicity May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. May cause

central nervous system depression. Magnesium oxide is absorbed slowly. Ingestion may

cause rapid bowel evacuation.

Skin corrosión/irritation May cause irritation.
Serious eye damage/irritation May cause irritation.

Respiratory or skin sensitization Nuisance dust. May irritate the nasal passages and respiratory tract. Inhalation may

cause flu-like discomfort. Within 24-48 hours, this discomfort is characterized by chills,

fever, muscle pain, dryness in the mouth and throat, and headache.

Toxic gases may be generated by thermal decomposition or combustion.

Germ cell mutagenicity

Carcinogenicity

Not classified.

Not classified.



Aspiration hazard

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No data available

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Reproductive toxicity

Specific target toxicity (single exposure)

Specific target toxicity (repeat exposure)

No data available

No data available

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
Magnesium oxide	No data available	No data available	No data available

SECTION 12.- ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – General Classification concerning the environment: not applicable.

Ecology – Air Not classified as dangerous for the ozone layer.

Ecology – Water Not classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

No data available

12.3 Bioacumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Other information Slightly hazardous to water.

SECCIÓN 13.- INFORMACIÓN RELATIVA A LA ELIMINACIÓN DE LOS PRODUCTOS

13.1 Waste treatment methods

Waste treatment methods Dispose of the product and its container as hazardous waste. Dispose of content/container

following local, regional, national, or international regulations. Do not dispose of waste down the drain. Avoid release to the environment. Obtain specific instructions from the safety data sheet.

Waste disposal recommendations
It is hazardous waste; only approved containers may be used.

SECTION 14.- TRANSPORT INFORMATION

14.1 UN NumberUnregulated14.2 UN proper shipping nameUnregulated14.3 Class of hazards in transportationUnregulated14.4 Packaging groupUnregulated

14.3 Additional information

Other information No additional information is available.

Overland transport No additional information is available.

Transport by sea No additional information is available.

Air transport No additional information is available.

SECTION 15.- REGULATORY INFORMATION



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International inventories

TSCA All components are listed or exempt.

TSCA – Toxic Substances Control Act Inventory Section 8(b).

DSL/NDSL - Domestic Substance List/Non-Domestic Substance List.

US Federal Regulations: Not listed in the Toxic Substances Control Act Inventory

SARA 311/312 Categories.

Acute Health Hazard No Chronic Health Hazard No Fire Hazard No

Sudden Hazardous Pressure Release No Reactive Hazard No

Clean Water Act. No data available

CERCLA. No data available

National Regulations. Norma Oficial Mexicana NOM-002-SCT/2011, Listado de las substancias y materiales peligrosos más usualmente transportados.

SECTION 16.- OTHER INFORMATION

NFPA NFPA health Hazard 1 NFPA fire Hazard 0 NFPA instability Hazard 0 NFPA Special hazard - HMIS III Health 1 Flammability 0 Physical 0 Personal protection E

Safety goggles, gloves, apron, and dust respirator.

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IMPORTANT NOTE: Information in this SDS is from available published sources and is believed to be accurate, but is not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance or mixture and applied to the appropriate product for safety precautions. No warranty, express or implied, is made and Pima Chemicals & Fertilizers, LLC and Quimica Pima, S.A. de C.V. assumes no liability resulting from the use of this SDS. The user must determine the suitability of this information for his application.

End of Safety Data Sheet