

MATERIAL SAFETY DATA SHEET
Magnesium oxide

Section 1 - Chemical Product and Company Identification

MSDS Name: Magnesium oxide**Catalog Numbers:** 19343-0000, 19343-0100, 20515-0000, 20515-0025, 20515-5000, 22253-0000, 22253-1000, 22253-5000, 26383-0000, 26383-0025, 26383-5000, 42389-0000, 42389-0500, 42389-5000**Synonyms:****Company Identification:**Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium**Company Identification: (USA)**Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410**For information in the US, call:**

800-ACROS-01

For information in Europe, call:

+32 14 57 52 11

Emergency Number, Europe:

+32 14 57 52 99

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

CHEMTREC Phone Number, Europe:

703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
1309-48-4	Magnesium oxide		215-171-9

Hazard Symbols: None listed**Risk Phrases:** None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: Causes mild eye irritation.**Skin:** Causes mild skin irritation.**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.**Chronic:**

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: Wash mouth out with water. Get medical aid if irritation or symptoms occur.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 1309-48-4:

United Kingdom, WEL - TWA: 10 mg/m³ TWA (inhalable dust, as Mg); 4 mg/m³ TWA (fume and respirable dust, as United Kingdom, WEL - STEL: 30 mg/m³ STEL (inhalable dust, as Mg); 12 mg/m³ STEL (fume and respirable dust, United States OSHA: 15 mg/m³ TWA (total particulate)
Belgium - TWA: 10 mg/m³ VLE (fumes)
France - VME: 10 mg/m³ VME (fume)
Malaysia: 10 mg/m³ TWA (fume)
Netherlands: 10 mg/m³ MAC (smoke, as Mg)
Spain: 10 mg/m³ VLA-ED (dust and fume)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: white

Odor: odorless

pH: 10.3 (saturated solution)
Vapor Pressure: 0hPa @20 deg C
Viscosity: Not available
Boiling Point: 3600 deg C @760mmHg (6,512.00°F)
Freezing/Melting Point: 2800 deg C (5,072.00°F)
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: 6.2 mg/l (20°C), reacts generates heat a
Specific Gravity/Density: 3.580
Molecular Formula: MgO
Molecular Weight: 40.29

Section 10 - Stability and Reactivity

Chemical Stability: Absorbs carbon dioxide from the air. Moisture sensitive. May decompose on exposure to moist air or water. Contact with water can also cause the liberation of heat and spattering of material.

Conditions to Avoid: Incompatible materials, exposure to air, exposure to moist air or water.

Incompatibilities with Other Materials Water, strong oxidizing agents, strong acids, bromine trifluoride, chlorine trifluoride, bromine pentafluoride, diphosphorus pentachloride.

Hazardous Decomposition Products Oxides of magnesium.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 1309-48-4: OM3850000

LD50/LC50: RTECS: Not available.

Carcinogenicity: Magnesium oxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Other: The high pH of this material makes it harmful to aquatic life.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated.	Not regulated.	Not regulated.
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 1309-48-4: 1

Canada

CAS# 1309-48-4 is listed on Canada's DSL List

US Federal

TSCA

CAS# 1309-48-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996

Revision #1 Date 10/28/2004

Revisions were made in Sections: General revision.

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