

Revision Date 03-May-2012

Revision Number 2

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

Product Identifier

Product Description: Magnesium oxide
Cat No. 423890000; 423890500
Synonyms Magnesia.

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

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

E-mail address begele.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

R-phrases(s) none

Label Elements

Signal Word None
Hazard Statements

Magnesium oxide

Revision Date 03-May-2012

SECTION 2. HAZARDS IDENTIFICATION

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Magnesium oxide fume 1309-48-4	EEC No. 215-171-9	98	1309-48-4	-	-	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Ingestion

Clean mouth with water. Get medical attention immediately if symptoms occur.

Inhalation

Remove from exposure, lie down. Move to fresh air. If symptoms persist, call a physician. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Notes to Physician

Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Non-combustible.

Advice for fire-fighters

Magnesium oxide

Revision Date 03-May-2012

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component

Magnesium oxide fume

European Union	The United Kingdom	France	Belgium	Spain
	STEL: 30 mg/m ³ 15 min STEL: 12 mg/m ³ 15 min TWA: 10 mg/m ³ 8 hr TWA: 4 mg/m ³ 8 hr	VME: 10 mg/m ³ 8 heures. fume	TWA: 10 mg/m ³ 8 uren	VLA-ED: 10 mg/m ³ 8 horas

Component

Magnesium oxide fume

Italy	Germany	Portugal	The Netherlands	Finland
	MAK: 1.5 mg/m ³ 8 Stunden. respirable fraction MAK: 4 mg/m ³ 8 Stunden. inhalable fraction	TWA: 10 mg/m ³ 8 horas		

Magnesium oxide

Revision Date 03-May-2012

Component	Austria	Denmark	Switzerland	Poland	Norway
Magnesium oxide fume	STEL: 20 mg/m ³ 15 Minuten STEL: 10 mg/m ³ 15 Minuten TWA: 5 mg/m ³ 8 Stunden TWA: 10 mg/m ³ 8 Stunden	TWA: 6 mg/m ³ 8 timer	MAK: 3 mg/m ³ 8 Stunden	TWA: 5 mg/m ³ 8 godzinach TWA: 10 mg/m ³ 8 godzinach	TWA: 10 mg/m ³ 8 timer STEL: 20 mg/m ³ 15 minutter.

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Magnesium oxide fume	TWA: 10.0 mg/m ³	TWA: 4 mg/m ³ 8 satima. smoke, respirable dust TWA: 10 mg/m ³ 8 satima. smoke, total dust	TWA: 4 mg/m ³ 8 hr. respirable dust TWA: 5 mg/m ³ 8 hr. fume TWA: 10 mg/m ³ 8 hr. total inhalable dust STEL: 10 mg/m ³ 15 min		TWA: 5 mg/m ³ 8 hodinách. Ceiling: 10 mg/m ³

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Magnesium oxide fume			TWA: 10 mg/m ³ TWA: 5 mg/m ³	STEL: 24 mg/m ³ 15 percekben. respirable dust TWA: 6 mg/m ³ 8 órában. respirable dust	TWA: 6 mg/m ³ 8 klukkustundum. Mg fume Ceiling: 12 mg/m ³ Mg

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Magnesium oxide fume		TWA: 4 mg/m ³			TWA: 5 mg/m ³ 8 ore STEL: 15 mg/m ³ 15 minute

Component	Russia - TWA	Slovak Republic	Slovenia	Sweden	Turkey
Magnesium oxide fume	MAC: 4 mg/m ³	TWA: 1.5 mg/m ³ respirable fraction TWA: 4 mg/m ³ inhalable fraction			

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls
Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment
Eye Protection

Goggles

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Magnesium oxide

Revision Date 03-May-2012

Respiratory Protection

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

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powder, Solid
Appearance	White
odor	odorless
pH	10.3 saturated solution
Vapor Pressure	0 hPa @ 20 °C
Vapor Density	No information available.
Boiling Point/Range	3600°C / 6512°F
Melting Point/Range	2800°C / 5072°F
Flash Point	No information available.
Autoignition Temperature	No information available.
Water Solubility	6.2 mg/L (20°C), reacts generates heat and Mg(OH) ₂
Specific Gravity	3.580
Molecular Formula	Mg O
Molecular Weight	40.29

SECTION 10. STABILITY AND REACTIVITY**Reactivity****Chemical Stability**

Unstable on exposure to moisture. Moisture sensitive. Air sensitive.

Possibility of Hazardous Reactions**Hazardous Polymerization**

Hazardous polymerization does not occur.

Hazardous Reactions .

No information available.

Conditions to Avoid

Exposure to air, Incompatible products, Exposure to moist air or water.

Incompatible Materials

Water, Strong oxidizing agents, Strong acids.

Hazardous Decomposition Products

Magnesium oxides.

Magnesium oxide

Revision Date 03-May-2012

SECTION 11. TOXICOLOGICAL INFORMATIONInformation on Toxicological EffectsAcute Toxicity**Product Information** No acute toxicity information is available for this product**Component Information**Chronic Toxicity**Carcinogenicity** There are no known carcinogenic chemicals in this product

Sensitization	No information available.
Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	None known

SECTION 12. ECOLOGICAL INFORMATIONToxicity**Ecotoxicity effects** Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plantsPersistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessmentOther adverse effects

Magnesium oxideRevision Date 03-May-2012

SECTION 16. OTHER INFORMATION**Full text of R-phrases referred to under sections 2 and 3**

No information available.

Revision Date 03-May-2012

Revision Summary

Reason for revision Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet