



SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1Product identifiers

Product name

: Magnesium oxide

Brand

: SAM

CAS-No.

: 1309-48-4

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

Identified uses

Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Stanford Advanced

Company

: Materials

23661 Birtcher Dr. Lake Forest, CA 92630

USA

Telephone

: +1 (949) 407-8904

Fax

: +1 (949) 812-6690

1.4 Emergency telephone number

Emergency Phone #

: +1 (949) 407-8904

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1Substances

Formula

MgO

Molecular weight

40.30 g/mol

CAS-No.

1309-48-4

EC-No.

215-171-9

Hazardous components

Component						Classific	ation	Concentration	
Magnes	ium oxide								
,	1			,		1	,		<= 100 %

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment

needed No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Magnesium oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

Air and moisture sensitive. Handle and store under inert gas. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL

PROTECTION 8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis				
			parameters					
Magnesium oxide	1309-48-4	TWA	10 mg/m3	USA. ACGIH Threshold Limit Values				
		:		(TLV)				
	Remarks		ratory Tract irritation	on				
		metal fume fever						
		Not classifiable as a human carcinogen						
: :::		TWA	10.000000	USA. ACGIH Threshold Limit Values				
1	,		mg/m3	(TLV)				
		Upper Respiratory Tract irritation						
		metal fume fever						
'.		Not classifiable as a human carcinogen						
		TWA	15.000000	USA. Occupational Exposure Limits				
			mg/m3	(OSHA) - Table Z-1 Limits for Air				
		1		Contaminants				
		See Appendix D - Substances with No Established RELs						
		TWA	15.000000	USA. Occupational Exposure Limits				
			mg/m3	(OSHA) - Table Z-1 Limits for Air				
111		: ' '	1	Contaminants				

8.2Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method:

EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odour Threshold

9.1 Information on basic physical and chemical properties

a) **Appearance** Form: powder Colour: white

b) Odour No data available

c) No data available d)

Melting point/freezing Melting point/range: 2,852 °C (5,166 °F) - lit. e) point

No data available

3,600 °C (6,512 °F) at 1,013 hPa (760 mmHg) Initial boiling point and boiling range

g) Flash point Not applicable Evaporation rate No data available h)

Flammability (solid, gas) No data available Upper/lower No data available

flammability or explosive limits Vapour pressure No data available

I) No data available Vapour density m) Relative density 3.580 g/cm3

insoluble Water solubility n) 0) Partition coefficient: n-No data available

octanol/water Auto-ignition No data available

temperature Decomposition No data available temperature

No data available r) Viscosity Explosive properties No data available

Oxidizing properties No data available

9.2 Other safety information

No data available

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

No data available

10.4 Conditions to avoid

Air sensitive.

Incompatible materials 10.5

Strong oxidizing agents, May react violently with:, phosphorous pentachloride, Strong acids

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Carcinogenicity - Hamster - Intratracheal

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Tumors. Lungs, Thorax, or Respiration:Tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

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

Additional Information

RTECS: OM3850000

Ingestion or inhalation of a large quantity may cause a feverish reaction and leukocytosis., Diarrhoea

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

		 		 CAS-No.	Revision Date
Magnesiu	ım oxide			1309-48-4	2007-03-01
		 _			

Pennsylvania Right To Know Components

		CAS-NO.		Revision	Jale
Magnesium oxide	1309-48-4		2007-03-01		
New James Bight To Know Common and		 			

New Jersey Right To Know Components

	CAS-No.	Revision Date
Magnesium oxide	1309-48-4	2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CACINA

16. OTHER INFORMATION

HMIS Rating

Health hazard:

Chronic Health Hazard:

Flammability: 0 Physical Hazard 0

NFPA Rating

Health hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

Further information

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