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Safety Data Sheet

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

1.1 Product Identifier

Product Name: MAGNESOL®, MAGNESOL® XL, OIL POLISHING POWDER

Chemical Name: Synthetic amorphous magnesium silicate, with molar ratio (SiO2:MgO) range of 1.4-4

REACH Registration No. 01-2119556793-27-0002

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Industrial Uses: Refer to Section 7.3 for additional information

Uses Advised Against: None identified

1.3 Details of the Supplier of the Safety Data Sheet

Corporate Site:

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1.4 Emergency Telephone Number: When calling, please provide Access Code 335693.

Americas		
Argentina	AR*	+54 11 5219 8871
Brazil	BR*	+55 11 4349 1907
Chile	CL*	+56 44 8905208
Colombia	CO*	+57 1 344 1317
Mexico	MX*	+52 55 41696225
Peru	PE*	+50 78 387596
United States	US	+01 760 476 3962
United States	US	+01 866 519 4752

Europe		
Australia	AU*	+61 280363166
Great Britain	GB	+44 20 35147487
United States	US	+01 760 476 3961
United Kingdom	UK	0 800 680 0425

Middle East - Africa		
United States	US	+01 760 476 3959

Asia Pacific		
Australia	AU*	+61 1 800 686 951
China	CN**	+86 4001 2001 74
China	CN**	+86 4001 2035 72
Indonesia	ID	+001 803 015 203 9774
Japan	JP	+81 368908677
Korea	KR*	+82 02 64339507
Korea	KR*	+080 822 1365
Malaysia	MY	+60 015 4 877 0772
New Zealand	NZ***	+64 800 451719
Philippines	PH	+63 2 3953471
Singapore	SG	+65 3158 6734
Thailand	TH	+66 21056177
United Kingdom	UK	+44 8 08 189 0979
United States	US	+01 760 476 3971
United States	US	+01 760 476 3960

* Countries that Require a Local In Country Emergency Number

** Use number in conjunction w/NRCC after the materials have been properly registered w/NRCC

*** Countries that Recommend a Local In Country Emergency Number

Poison Centre

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111
Ireland	National Poisons Information Service (Beaumont Hospital)	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SDS Date of Preparation: Month: 9 Day: 23 Year: 2021

Revision: DGIJ-RG16-1051_Reach_SDS_English_rev3.4

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

EU CLP Classification (No 1272/2008): Not classified as a hazardous substance.

2.2 Label Elements

No labeling required

2.3 Other Hazards:

None. Not classified as PBT or vPvB.

This generic Safety Data Sheet has been provided for information purposes only. Since this product is not classified as hazardous, according to Article 31of the REACH Regulation (EC) 1907/2006 there is no obligation to provide a SDS for this material.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS#	EINECS# REACH Reg. No	CLP Classification 1272/2008 M Factors Specific Concentration Limits (SCE) Acute Toxicity Estimates (ATE)	%
Synthetic amorphous magnesium silicate, with molar ratio (SiO2:MgO) range of 1.4-4	1343-88-0	701-065-4 01-2119556793-27-0002	Not classified as hazardous Substance with a Member State Exposure Limit	100

See Section 16 for further information on CLP Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: Flush with plenty of water. Obtain medical attention if irritation persists.
Skin: No first aid should be needed. Wash off with soap and water. Get medical attention if irritation develops.
Inhalation: If irritation develops, remove victim to fresh air. Get medical attention if irritation persists.
Ingestion: No first aid should be required. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if large amount is swallowed.

4.2 Most Important symptoms and effects, both acute and delayed:

Poses little or no health hazard. May mild, abrasive irritation to the eyes, skin and respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed: None required.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use any extinguishing media that is suitable for the surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: This material is not combustible and presents no fire hazard.

Hazardous Decomposition Products: None.

5.3 Special Protective Actions for Fire-Fighters:

Special Fire Fighting Procedures: None required.

Fire Fighting Equipment: None required. Use procedures and equipment appropriate for other materials in the fire area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective equipment. Avoid creating and breathing dust.

6.2 Environmental Precautions:

Avoid unintentional release to the environment.

6.3 Methods and Material for Containment and Cleaning Up:

Sweep or vacuum spilled material; the use of a sweeping compound/dust suppressant is suggested. Dampening with water can reduce dust.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment. Refer to Section 13 for disposal guidance.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with the eyes. Avoid creating and breathing dust.

A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapours. Advice on the control of static is given in British Standard BS 5958.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Keep containers closed when not in use.

7.3 Specific end use(s): Pharmaceuticals, Cosmetics, Detergents, builders and stabilizers, construction industry additive, chemicals and agrochemicals, adsorbent, food additives, hygiene and sanitary products, anti-caking agents for fertilizer, polyol purification, edible oil purification.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Synthetic amorphous magnesium silicate, with molar ratio (SiO2:MgO) range of 1.4-4 (as particulates not otherwise specified)	5 mg/m3 (respirable) TWA France 10 mg/m3 (inhalable) TWA France 1.5 mg/m3 (respirable) TWA Germany (DFG) 4 mg/m3 (inhalable) TWA Germany (DFG) 5 mg/m3 (respirable) TWA USA 5 mg/m3 (total) TWA USA 4 mg/m3 (respirable) 10 mg/m3 (inhalable) TWA UK WEL

Refer to local regulations for specific requirements.

DNEL:

Workers - Hazard via inhalation route
Systemic effects
Long term exposure - DNEL: 194 mg/m³
Acute/short term exposure – DNEL: 1166 mg/m³
Workers - Hazard via dermal route
Systemic effects
Long term exposure – DNEL: 56 mg/kg bw/day
Acute/short term exposure – DNEL: 333 mg/kg bw/day

PNEC:

PNEC aqua (freshwater): 10 mg/L (AF 1000)
PNEC aqua (marine water): 1 mg/L (AF 10000)
PNEC aqua (intermittent releases): 100 mg/L (AF 100)
Sediment/Sewage Treatment Plant: No PNEC quantifiable due to high tolerance in acute testing

8.2 Exposure Controls:

Engineering Controls: Use with adequate general or local ventilation to minimize airborne exposures.
Eye and Face: Follow facility requirements. Dust goggles recommended for dusty conditions. For dusty conditions, wear appropriate safety glasses with side shields or chemical goggles as described by the European Standard EN 166.

Personal Protective Equipment must comply with Reg (EU) 2016/425

Skin: None required.
Respiratory: Not necessary if workplace concentrations of hazardous constituents are below recommended limits. If the exposure levels are excessive, a local authority approved respirator should be worn. Respirator selection and use should be based on contaminant type, form and concentration in compliance with national law and the European Standard EN 149..
Protective Clothing: None required under normal use conditions.
Work Hygienic Practices: No special requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Physical State: Solid	**Colour:** White powder
Odour: Odourless	**Odour Threshold**: Not applicable
pH: 7.0-10.8 (10% slurry)	**Relative Density:** 2.1-2.2
Boiling Point/Range: Not applicable	**Melting/Freezing Point:** 1910°C (3470°F)
Relative Vapour Pressure: Not applicable	**Water Solubility:** 127-268 mg/L (expressed as total oxides) @30°C
Vapour Density: Not applicable	**Evaporation Rate:** Not applicable
Kinematic Viscosity: Not applicable	**Particle Characteristics**: Not applicable
Flash Point: None	**Explosive Limits: LEL:** None
Autoignition Temperature: None	**Explosive Limits: UEL:** None
Percent Volatile: 0%	**Flammability (liquid/solid/gas):** None
Partition Coefficient: n-octanol/water: Not applicable	**Decomposition Temperature:** None

9.2.1 Other Information:
None.

9.2.2 Other safety characteristics:
No relevant information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:
Not reactive

10.2 Chemical Stability:
Stable under normal conditions

10.3 Possibility of Hazardous Reactions:
None known.

10.4 Conditions to Avoid:
None known.

10.5 Incompatible Materials:
None known.

10.6 Hazardous Decomposition Products:
None.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eye: Dust may cause temporary discomfort.
Skin: No hazardous effects expected. Dust may have a drying effect on the skin.
Skin Absorption: No evidence of adverse effects from available information.
Ingestion: May cause gastrointestinal discomfort if ingested in large quantities. The lethal dose in humans for magnesium silicate if estimated at over 15000 mg/kg. Magnesium silicate is a permitted food additive in the UK, USA and many other countries.
Inhalation: Not hazardous effects expected. Magnesium silicate is considered to be a nuisance dust and does not produce significant disease or toxic effect when exposure is kept below the recommended limits. However, existing medical conditions (eg. Asthma, bronchitis) may be aggravated by exposure to dust. Effects of exposure may be greater, and occur at lower levels of exposure in smokers compared to non-smokers.

Chronic Toxicity: No adverse effects expected.

Acute Toxicity Data:
LD50 oral rat >5000 mg/kg. LD50 dermal rabbit >2000 mg/kg (no adverse effects were observed at maximum dose). LC50 inhalation rat >20 mg/L/1 hour (no adverse effects were observed).

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Not irritating to rabbit skin.

Eye damage/ irritation: Based on available data, the classification criteria are not met. Not irritating to rabbit eyes (OECD 405).
Skin Sensitization: Based on available data, the classification criteria are not met. Not a skin sensitizer based on human experience.

Respiratory Sensitization: Based on available data, the classification criteria are not met. This material is not listed as a potential carcinogen by IARC or EU CLP Annex VI No data available. Not expected to be a respiratory sensitizer based on human experience.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met. Based on data from a supporting substance, this material is not expected to cause germ cell mutagenicity.

Carcinogenicity: Based on available data, the classification criteria are not met. This material is not listed as a potential carcinogen by IARC or EU CLP Annex VI. Based on data from similar materials, this material is not expected to increase the risk of cancer.

Developmental / Reproductive Toxicity: Based on available data, the classification criteria are not met. Based on data from similar materials, this material is not expected to cause adverse effects on reproduction or development.

Specific Target Organ Toxicity (Single Exposure): Based on available data, the classification criteria are not met. No adverse effects were observed in an acute inhalation toxicity study.

Specific Target Organ Toxicity (Repeated Exposure): Based on available data, the classification criteria are not met. Based on data from similar materials, this material is not expected to cause toxic effects on repeated exposure. NAOEL oral rat 9000 mg/kg bw/d (by analogy).

Aspiration Hazard: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
None known

11.2.2 Other Information
No relevant data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Based on test data for similar substances, this material is not expected to be toxic to aquatic organisms.

Fish (brachydanio rerio) LL50 >10000 mg/L/96h (read-across)
Aquatic invertebrates (daphnia magna) EL50 >10000 mg/L/24h (read-across)
Algae (*Scenedesmus subspicatus)* NOEL = 10000 mg/L (read across)

12.2 Persistence and Degradability:
Biodegradation is not applicable for inorganic substances.

12.3 Bioaccumulative Potential:
Not expected to bioaccumulate.

12.4 Mobility in Soil:
No mobility in soil is expected.

12.5 Results of PBT and vPvB Assessment:
This Substance does not meet PBT or vPvB criteria under Annex XIII of REACH.

12.6 Endocrine disrupting properties:
Not known.

12.7 Other Information:
Not known

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods

Disposal Method: In the form supplied, magnesium silicate is not classified as a hazardous waste in the EU. Magnesium silicate may undergo normal non-hazardous waste disposal. Dispose in accordance with all local, state and federal regulations.
Empty Container: No special handling or disposal is required.
General Comments: It is the responsibility of the user of this product to characterize wastes generated to determine if the waste meets the definition of hazardous waste. The product uses, transformations, synthesis, mixtures, etc., may render the resulting end product subject to regulation. See Section 16 for additional information on filter cakes.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not regulated	None	None	Not applicable
EU ADR/RID	None	Not regulated	None	None	Not applicable
IMDG	None	Not regulated	None	None	Not applicable
IATA/ICAO	None	Not regulated	None	None	Not applicable

14.6 Special Precautions for User:
None

14.7 Transport in Bulk According to IMO instruments:
Not determined

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

Other EU Regulations: This product is classified and labeled in accordance with Regulation (EC) No 1272/2008. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH) as amended.

German WGK: nwg

Chemical Inventories:
US TSCA All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.
Canadian CEPA: All of the components are listed on the Canadian DSL or are exempt.
EU EINECS: All of the components are listed on the EINECS inventory or are exempt.
Australia: All of the components are listed on the AICS inventory or are exempt.
China: All the components are listed on the Chinese chemical inventory or are exempt.
Philippines: All the components are listed in the Philippine Inventory.
New Zealand: All of the components are listed on the New Zealand Inventory of Chemicals.
Korea: All of the components are listed on the Korean Existing Chemicals Inventory
Japan: All the components are listed on the Japan Inventory of existing chemicals.

15.2 Chemical Safety Assessment:
A Chemical Safety Assessment has been carried out for this substance. Exposure scenario are not required (REACH Article 14(4)).

SECTION 16: OTHER INFORMATION

Classification of mixture based on method of Article 9.1 of Regulation (EC) No 1272/2008

International Numbering System (INS) number: 553i
European Union E number: E553a(i)

Note: In sufficient quantity, a filter cake composed of a flammable organic liquid absorbed on synthetic magnesium silicate or other filter materials such as diatomaceous earth, Perlite, or natural clays may be self-heating or possibly pyrophoric.

GHS/CLP Hazard Classes and Statements for Reference (See Sections 2 and 3):
None

Revision History: Changes to comply with (EU) 2020/878 – Sections 1, 3, 7, 8, 9, 11, 12, 14, 15.

References:
A. REACH Registration Dossier 2013
B. NLM Hazardous Substances Databank
C. Magnesium silicate is not listed in:
    1. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, 2013
    2. Industrial Hygiene and Toxicology, F. A. Patty
    3. Industrial Toxicology, Alice Hamilton and Harriet Hardy
    4. Toxicology of the Eye, W. Morton Grant
    5. Dangerous Properties of Industrial Materials, Sax and Lewis
    6. Government Publications:
        a. NIOSH/OSHA Pocket Guide to Chemical Hazards

b. Registry of Toxic Effects of Chemical Substances
c. The Industrial Environment - It's Evaluation and Control

7. Annex VI to Regulation (EC) No 1272/2008

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