

Safety Data Sheet SIM6471.0
Date of issue: 03/04/2018 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Physical state : Solid

Substance name : MAGNESIUM SILICATE, hydrous

Product code : SIM6471.0
Formula : Mg3O10(OH)2Si4

Synonyms : TALC

Chemical family : INORGANIC SILICATE

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carcinogenicity, Category 1A H350 Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Dange

Hazard statements (CLP) : H350 - May cause cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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P260 - Do not breathe dust.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P314 - Get medical advice/attention if you feel unwell.

P405 - Store locked up.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Multi-constituent

Name : MAGNESIUM SILICATE, hydrous

CAS-No. : 13376-74-4/14807-96-6

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Magnesium silicate	(CAS-No.) 14807-96-6 (EC-No.) 238-877-9	97 - 100	Not classified
Quartz	(CAS-No.) 14808-60-7	0 - 1	Carc. 1A, H350 STOT RE 1, H372

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical

advice.

First-aid measures after skin contact : Wash with plenty of water/.... Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : No information available.

Chronic symptoms : Long-term excessive exposure may cause talcosis, a pulmonary fibrosis, which in turn may

lead to severe and permanent damage to lungs. This product contains small amounts of crystalline silica which causes silicosis. IARC found sufficient evidence in humans of carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Not combustible.
Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid contact with skin and eyes. Do not breathe dust.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store locked up.

Incompatible materials : None known

Storage area : Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Magnesium silicate (14807-9	6-6)	
Austria	MAK (mg/m³)	2 mg/m³ (Asbestos-free fibers-respirable fraction)
Belgium	Limit value (mg/m³)	2 mg/m³
Bulgaria	OEL TWA (mg/m³)	1 fibers/cm³ (containing <2% free Crystalline silicon dioxide in respirable fraction-respirable fraction, fibers) 6 mg/m³ (containing <2% free Crystalline silicon dioxide in respirable fraction-inhalable fraction) 3 mg/m³ (containing <2% free Crystalline silicon dioxide in respirable fraction-respirable fraction)
Greece	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction) 2 mg/m³ (respirable fraction)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (Respirable dust, TWA – 8 hr. period)
USA IDLH	US IDLH (mg/m³)	1000 mg/m³ (containing no asbestos and <1% quartz)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m³ (containing no Asbestos and <1% Quartz- respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³ (Table Z-3 Mineral Dust, published by OSHA)
Spain	VLA-ED (mg/m³)	2 mg/m³ (this value is for the particulate matter that is free from Asbestos and contains less than 1% of Crystalline silica-respirable fraction)
Switzerland	MAK (mg/m³)	2 mg/m³ (respirable dust)
Netherlands	Grenswaarde TGG 8H (mg/m³)	0.25 mg/m³
United Kingdom	WEL TWA (mg/m³)	1 mg/m³ (respirable dust)
United Kingdom	WEL STEL (mg/m³)	3 mg/m³ (calculated-respirable dust)
Czech Republic	Expoziční limity (PEL) (mg/m³)	2 mg/m³
Denmark	Grænseværdie (langvarig) (mg/m³)	0.3 fibers/cm³ (containing fibers)

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Magnesium silicate (14807-96-6)				
Finland	HTP-arvo (8h) (mg/m³)	0.5 fibers/cm³ (fiber)		
Finland	HTP-arvo (15 min) (ppm)	2 ppm (granular form, inhalable dust) 1 ppm (granular form, respirable)		
Hungary	AK-érték	2 mg/m³ (respirable)		
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ (total inhalable dust) 0.8 mg/m³ (respirable dust)		
Ireland	OEL (15 min ref) (mg/m3)	30 mg/m³ (calculated-total inhalable dust) 2.4 mg/m³ (calculated-respirable dust)		
Lithuania	IPRV (mg/m³)	2 mg/m³ (inhalable fraction) 1 mg/m³ (respirable fraction)		
Norway	Grenseverdier (AN) (mg/m³)	6 mg/m³ (total dust) 2 mg/m³ (respirable dust)		
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	6 mg/m³ (total dust) 2 mg/m³ (respirable dust)		
Poland	NDS (mg/m³)	4 mg/m³ (inhalable fraction) 1 mg/m³ (respirable fraction)		
Romania	OEL TWA (mg/m³)	2 mg/m³ (inhalable fraction, dust)		
Slovakia	NPHV (priemerná) (mg/m³)	2 mg/m³ (respirable fraction, 5% or less fibrogenic component) 10 mg/m³ (respirable fraction, greater than 5% fibrogenic component) 10 mg/m³ (total aerosol)		
Sweden	nivågränsvärde (NVG) (mg/m³)	2 mg/m³ (total dust) 1 mg/m³ (respirable dust)		
Canada (Quebec)	VEMP (mg/m³)	3 mg/m³ (respirable dust)		
Australia	TWA (mg/m³)	2.5 mg/m³ (containing no asbestos fibers)		
Portugal	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction, particulate matter containing no Asbestos and < 1% Crystalline silica)		
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen		
Quartz (14808-60-7)				
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³ respirable dust		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ nuisance dust		

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Neoprene or nitrile rubber gloves

Eye protection:

Safety glasses. Contact lenses should not be worn

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.
Molecular mass : 379.28 g/mol
Colour : White.

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Flammability (solid, gas)

Odour No data available : No data available Odour threshold

Refractive index : No additional information available

рΗ No data available Relative evaporation rate (butylacetate=1) No data available Melting point 1557 °C dec Freezing point : No data available : No data available Boiling point Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available

Sublimation point Median Particle Size: 3-6 microns

Not combustible

< 0.01 mm Hg @ 20°C Vapour pressure Relative vapour density at 20 °C : No data available

Relative density : 2.75 100 % % Volatiles

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

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Chemical stability 10.2.

Stable.

Possibility of hazardous reactions 10.3.

No additional information available

10.4. **Conditions to avoid**

None known.

10.5. Incompatible materials

None known.

Hazardous decomposition products 10.6.

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer.

IARC found sufficient evidence in humans of carcinogenicity of inhaled crystalline silica in the

form of quartz or cristobalite.

: Not classified

This product contains a component that has been reported to be carcinogenic based on its

IARC, ACGIH, NTP, or EPA classification.

Magnesium silicate (14807-96-6)

IARC group 3 - Not classifiable

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Magnesium silicate (14807-96-6)	
National Toxicology Program (NTP) Status 1 - Evidence of Carcinogenicity, 5 - Twelfth Report - Items under consideration	
Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : No information available.

Chronic symptoms : Long-term excessive exposure may cause talcosis, a pulmonary fibrosis, which in turn may lead to severe and permanent damage to lungs. This product contains small amounts of crystalline silica which causes silicosis. IARC found sufficient evidence in humans of

carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Magnesium silicate (14807-96-6)

LC50 fish 1 > 100 g/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Magnesium silicate (14807	·96-6)
BCF fish 1	(no known bioaccumulation)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Product/Packaging disposal recommendations : This product is a naturally occurring mineral. Unless contaminated in service, this product is

neutral to the environment. Landfill. Dispose in a safe manner in accordance with local/national

regulations. Dispose of contents/container to licensed waste disposal facility.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

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Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

MAGNESIUM SILICATE, hydrous is not on the REACH Candidate List

MAGNESIUM SILICATE, hydrous is not on the REACH Annex XIV List

MAGNESIUM SILICATE, hydrous is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

MAGNESIUM SILICATE, hydrous is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

% Volatiles : 100 %

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed: The substance is not listed: The substance is not listed

: The substance is not listed

: The substance is not listed

Denmark

Danish National Regulations

 Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Carc. 1A	Carcinogenicity, Category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

SDS EU (REACH Annex II) - Custom

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