

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 1 from 9
Print date: 5-1-2023

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

1.1 Product identification:

Product name: Talc. Hydrous magnesium silicate .
Reach registration number : The substance is not subject to registration in accordance with Regulation (EC) No 1907/2006 [REACH].
EC no: 238-877-9
CAS no: 14807-96-6

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

Relevant identified uses: Laboratory chemicals
Analytical and laboratory applications
Uses advised against: Not to be used for products in contact with food.
Not to be used for private purposes (household).

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

The substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]: not applicable.

Hazard pictograms:

Not applicable.

Warning:

Not applicable.

Hazard statements:

Not applicable

2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 2 from 9
Print date: 5-1-2023

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.1 Substances:

Substance name:	Magnesium silicate
Molecular formula:	H ₂ Mg ₃ O ₁₂ Si ₄
Molar mass:	379.3 g/mol
CAS No:	14807-96-6
EC no:	238-877-9

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General comments:

Remove contaminated clothing.

By inhalation:

Provide fresh air.

On skin contact:

Rinse/shower skin with water.

On eye contact:

Rinse gently with water for several minutes.

If swallowed:

Rinsing the mouth.

If you feel unwell, consult a doctor.

4.2 Main acute and delayed symptoms and effects:

No symptoms and effects are known so far.

4.3 Indication of immediate medical attention and special treatment required:

No specific recommendations.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Match fire-fighting measures to environment.

Water, foam, dry extinguishing powder, ABC powder.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture:

Product is not flammable.

5.3 Advice for firefighters:

In case of fire and/or explosion, avoid breathing fumes.

With normal precautions, extinguish from a reasonable distance.

Wear self-contained breathing apparatus.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For persons other than emergency services:

Combating dust formation.

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 3 from 9
Print date: 5-1-2023

6.2 Environmental precautions:

Avoid getting the product into drains, surface water or groundwater.

6.3 Methods and materials for containment and cleaning:

Advice on how to contain the spill:

Covering drains.

Mechanical recording.

Advice on how to clean up the spill:

Mechanical recording.

Other information related to discharge or release:

Put into suitable retainers for disposal.

6.4 Reference to other sections:

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Instructions for disposal: see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

No special measures are necessary.

Advice on general occupational hygiene:

Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including incompatibilities:

Store in a dry place.

Incompatible substances or mixtures:

Note advice for chemical storage.

Consideration of other advice:

Ventilation requirements:

Use of local and general ventilation.

Specific designs for storage rooms or vessels:

Recommended storage temperature: 15-25°C

7.3 Specific end use:

No information is available.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National limits

Occupational exposure limits (occupational exposure limits)

Talc CAS number: 14807-96-6 EC number: 238-877-9		
Country	Limit value	Official publication
Netherlands	0.25 mg/m ³ respirable fraction (TGG - 8h)	Stcrt.2006, 252
Denmark	0.3 fibres/cm ³ (TGG - 8h)	BEK no 1458 af 13/12/2019
Finland	2 mg/m ³ inhalable fraction (TGG - 8h) 1 mg/m ³ respirable fraction (TGG - 8h) 0.5 fibres/cm ³ (TGG - 8h)	HTP-ARVOT 2018
Norway	6 mg/m ³ inhalable fraction (TGG - 8h) 2 mg/m ³ respirable fraction (TGG - 8h)	FOR-2011-12-06-1358
Austria	2 mg/m ³ respirable fraction (TGG - 8h)	Grenzwerteverordnung 2018 - GKV 2018
United Kingdom	1 mg/m ³ respirable fraction (TGG - 8h)	EH40/2005 (Third edition, 2018)
Sweden	2 mg/m ³ inhalable fraction (TGG - 8h) 1 mg/m ³ respirable fraction (TGG - 8h)	AFS 2018:1
Switzerland	2 mg/m ³ respirable fraction (TGG - 8h)	SuvaPro Grenzwerte am Arbeitsplatz 2018

Relevant DNEL and other thresholds:

User	Protection objective, Route of exposure	Threshold	Exposure time

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 4 from 9
Print date: 5-1-2023

(industrial) employees	human, via inhalation	2.16 mg/m ³	chronic - systemic effects
(industrial) employees	human, via inhalation	2.16 mg/m ³	acute - systemic effects
(industrial) employees	human, via inhalation	3.6 mg/m ³	chronic - local effects
(industrial) employees	human, via inhalation	3.6 mg/m ³	acute - local effects
(industrial) employees	human, through the skin	43.2 mg/kg bw/day	chronic - systemic effects

Environmental values:

Relevant PNEC and other thresholds:

Environmental compartments	Organisms	Threshold	Exposure time
Freshwater	Aquatic organisms	598 mg/l	short-term (one-off)
Seawater	Aquatic organisms	141.3 mg/l	short-term (one-off)
Freshwater sediment	Aquatic organisms	31.33 mg/kg	short-term (one-off)
Seawater sediment	Aquatic organisms	3.13 mg/kg	short-term (one-off)

8.2 Exposure control measures:

Individual protection measures (personal protective equipment)

Eye/face protection:

Wear safety goggles with side protection.

Skin protection:

Hand protection:

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

Type of material

NBR (nitrile rubber)

Material thickness

>0.11 mm

Breakthrough time of glove material

>480 minutes (permeation level: 6)

Other protective equipment:

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

Respiratory protection:

Respiratory protection is necessary when: Dust generation.

Particle filter (EN 143). P1 (filters at least 80% of air particles, colour code: white).

Managing environmental exposure:

Avoid getting the product into drains, surface water or groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	solid
Colour:	white - cream-coloured
Odour:	odourless
Melting/freezing point:	900-1.000°C
Boiling point or initial boiling point and boiling range:	undetermined
Flammability:	non-flammable
Lower and upper explosion limit:	not determined
Flash point:	not applicable
Self-ignition temperature:	undetermined
Decomposition temperature:	>1.000°C
pH value:	9 - 9.5 (in aqueous solution: 100 g/l, 20°C)
Kinematic viscosity:	irrelevant
<u>Solubility(s)</u>	
Solubility in water:	<0.1 mg/l at 25°C (ECHA)
<u>Partition coefficient</u>	

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 5 from 9
Print date: 5-1-2023

Partition coefficient n-octanol/water (log value): -9.4 (pH value: 7, 25°C) (ECHA) not relevant (inorganic)
Soil/water organic carbon (log KOC): 1.503 (ECHA)
Vapour pressure: 0 Pa at 25°C
Density: 2.7 g/cm³ at 20°C
Relative vapour density: no information is available with this property
Bulk density: ~ 450 kg/m³

Other safety parameters

Oxidising properties: no

9.2 Other information

Information on physical hazard classes: hazard classes in accordance with GHS (physical hazards): not relevant

Other safety features: There is no further information.

SECTION 10: Stability and reactivity

10.1 Reactivity:

This substance is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

10.3 Possible hazardous reactions

Violent reaction with: strongly oxidising

10.4 Conditions to avoid

Keep away from heat.

Decomposition occurs from temperatures of: >1.000°C.

10.5 Incompatible materials

There is no further information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Classification according to GHS (1272/2008/EC, CLP):

This substance does not meet the criteria for classification according to Regulation No 1272/2008/EC.

Acute toxicity

Cannot be classified as acutely toxic.

Route of exposure	End point	Value	Species	Method	Source
Oral	LD50	>5,000 mg/kg	Rat		ECHA
Inhalation: dust/mist	LC50	>2.1 mg/l/4h	Rat		ECHA
Dermal	LD50	>2,000 mg/kg	Rat		ECHA

Skin corrosion/irritation

Does not classify as caustic/irritating to the skin.

Serious eye damage/eye irritation

Cannot be classified as severely eye-injurious or irritating to the eyes.

Respiratory or skin sensitisation

Is not classifiable as inhalant or skin allergenic.

Mutagenicity in gametes

Is not classifiable as mutagenic in germ cells (mutagenic).

Carcinogenicity

Is not classifiable as carcinogenic.

Reproductive toxicity

Is not classifiable as a reproductive toxicant.

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 6 from 9
Print date: 5-1-2023

Specific target organ toxicity at single exposure

Cannot be classified as toxic to specific target organs (single exposure).

Specific target organ toxicity on repeated exposure

Cannot be classified as toxic to specific target organs (repeated exposure).

Inhalation hazard

Is not classifiable as dangerous in aspiration.

Symptoms related to physical, chemical and toxicological properties

After swallowing

No data are available.

In case of contact with eyes

No data are available.

After inhalation

No data are available.

On contact with skin

No data are available.

Other information

This information is based on the current state of our knowledge.

11.2 Endocrine disrupting properties

Not stated.

11.3 Information on other hazards

There is no further information.

SECTION 12: Ecological information

12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

End point	Value	Species	Source	Exposure time
LC50	89,581 mg/l	Fish	ECHA	96 h
EC50	7,203 mg/l	Algae/water plants	ECHA	96 h

Biodegradation

The methods relating to the determination of biodegradability do not apply to inorganic substances.

12.2 Persistence and Degradability:

No data are available.

12.3 Bioaccumulation:

Does not concentrate significantly in organisms.

n-octanol/water (log KOW):

-9.4 (pH value: 7, 25°C) (ECHA)

BCF:

3.162 (ECHA)

12.4 Mobility in soil:

Normalised adsorption coefficient for organic carbon

1,503 (ECHA)

12.5 Results of PBT and vPvB assessment:

No data are available.

12.6 Endocrine disrupting properties

Not stated.

12.7 Other Harmful Effects:

No data are available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

For waste disposal, contact the responsible authorised waste disposal company.

Information regarding wastewater discharge

According to directive 1907/2006/EC, 2020/878
 Version 4.0 Revision date: 22-07-2021
 Trade name: Talc

Page: Page 7 from 9
 Print date: 5-1-2023

Do not throw waste in the sink.

Relevant provisions on waste prevention

The allocation of waste key numbers/waste markings should be industry- and process-specific in accordance with AVV.

Abfallverzeichnis-Verordnung (waste catalogue regulation, Germany).

Comments

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

SECTION 14: Information relating to transport

14.1 UN number

Not applicable.

14.2 Proper cargo name according to UN model regulations

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Harmful to the environment: no

14.6 Special precautions for the user

Not applicable.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

No information is available.

14.8 Information for each of the UN regulations

Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - **Additional information**

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to the IMDG.

International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

Relevant European Union (EU) provisions

Restrictions in accordance with REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not stated.

Seveso Directive

2012/18/EU (Seveso III)			
No.	Hazardous substance/hazard categories	Thresholds (tonnes) for application of requirements for lower-threshold and upper-threshold establishments	Comment
	Not awarded		

Decopaint Directive

VOC content: 0 %
 0 g/l

Directive on industrial emissions (IE Directive)

VOC content: 0 %
 VOC content: 0 g/l

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 8 from 9
Print date: 5-1-2023

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water framework directive (WFD)

List of pollutants (WFD)				
Name of substance	Name according to inventory	CAS No	Included in	Comments
Talcum	Substances and preparations, or their degradation products, which have been shown to possess carcinogenic or mutagenic properties or properties which may cause effects in or via the aquatic environment on steroidogenic functions, thyroid functions, reproduction or other hormonal functions		A)	
Talcum	Metals and metal compounds		A)	

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors:

not listed

Regulation on drug precursors:

not listed

Regulation on ozone-depleting substances:

not listed

Regulation on the Import and Export of Dangerous Chemicals (PIC):

not listed

Regulation on persistent organic pollutants (POPs):

not listed

National regulations (Netherlands)

General Assessment Methodology for Substances and Preparations (ABM):

Water severity and remediation effort		
Water severity	Water severity indication	Remediation effort
B (4)	little harmful to aquatic organisms	B

SSW list CMR effects:

not listed

National inventories:

Country	List	Legend	Status
AU	AICS	Australian Inventory of Chemical Substances	fabric is framed
CA	DSL	Domestic Substances List (DSL)	fabric is framed
CN	IECSC	Inventory of Existing Chemical Substances Produced or Imported in China	fabric is framed
EU	ECSI	EC inventory (EINECS, ELINCS, NLP)	fabric is framed
EU	REACH Reg.	REACH-registered substances	fabric is framed
KR	KECI	Korea Existing Chemicals Inventory	fabric is framed
MX	INSQ	National Inventory of Chemical Substances	fabric is framed
NZ	NZIoC	New Zealand Inventory of Chemicals	fabric is framed
PH	PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	fabric is framed
TR	CICR	Chemical Inventory and Control Regulation	fabric is framed
TW	TCSI	Taiwan Chemical Substance Inventory	fabric is framed
US	TSCA	Toxic Substance Control Act	fabric is framed

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Aligning with Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU

According to directive 1907/2006/EC, 2020/878
Version 4.0 Revision date: 22-07-2021
Trade name: Talc

Page: Page 9 from 9
Print date: 5-1-2023

- ✓ Restructuring: heading 9, heading 14
- ✓ Amendment: section 2.3, 11.2, 10.6

Abbreviations:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AICS - Australian Inventory of Chemical Substances; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Chemicals Inventory List; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and data sources

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures.
Regulation (EC) No 1907/2006 (REACH), as amended by 2020/878/EU.
Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).

This information is based on the current state of our knowledge. This safety data sheet has been compiled and is exclusively intended for this product.