

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date	01st June 2021	Version	1.2
Revision date	04th September 2023		

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

1.1. Product identifier

Substance / mixture	Talc
Chemical name	substance
CAS number	talc (Mg ₃ H ₂ (SiO ₃) ₄)
EC (EINECS) number	14807-96-6
Registration number	238-877-9
Other substance name	-----
Talek	

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

Substance's intended use

Functional mineral for use in paper, paints, ceramics, plastics. Ingredient for cosmetics.

Substance uses advised against

1.3. Details of the supplier of the safety data sheet

Distributor

Name or trade name	Macco Organiques, s.r.o.
Address	Zahradní 1938/46c, Bruntál 1, 792 01
	Czech Republic
Identification number (CRN)	26819210
VAT Reg No	CZ26819210
Phone	+420 555 530 300
E-mail	macco@macco.cz

Competent person responsible for the safety data sheet

Name	Petr Ševčík
E-mail	petr.sevcik@macco.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Handle with care, avoid dust formation.

Most serious adverse effects on human health and the environment

Not specified.

2.2. Label elements

none

2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date 01st June 2021
Revision date 04th September 2023 Version 1.2

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 14807-96-6 EC: 238-877-9 Registration number: -----	substance main component talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$)	>85	not classified as dangerous	
CAS: 1318-59-8 EC: 215-285-9	Chlorite	<9	not classified as dangerous	
CAS: 16389-88-1 EC: 240-440-2	dolomite	<5	Eye Irrit. 2, H319	
CAS: 13717-00-5 EC: 604-004-9	magnesite	<2	not classified as dangerous	
CAS: 14808-60-7 EC: 238-878-4	quartz (SiO_2)	<1,1	STOT RE 2, H373	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. In the event of unconsciousness, do not provide food by mouth. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Transfer the affected person to the fresh air and ensure calm environment for body and mind. In the event of issues, find medical advice.

If on skin

Remove contaminated clothes. And wash it before reuse.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

If inhaled

Symptoms of acute accidental exposure may be non-specific and are similar to those of a massive inhalation of any dust without toxic effects. These symptoms may include coughing, expectoration, sneezing, and difficulty in breathing due to upper respiratory tract irritation.

If on skin

Not expected.

If in eyes

Not expected.

If swallowed

Not expected.

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

Symptomatic treatment.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date	01st June 2021		
Revision date	04th September 2023	Version	1.2

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Non-explosive. No hazardous thermal decomposition.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Provide sufficient ventilation. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13. Washing the floor with water is not recommended as the floor may become slippery. However, if the talc is on an already wet floor, rinse it thoroughly with water to completely remove slipperiness.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of dust in concentrations exceeding the occupational exposure limits. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Not specified.

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Provide showers and eye wash possibility.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

When handling in long-term or repeatedly, use protective gloves. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Respirator.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date	01st June 2021		
Revision date	04th September 2023	Version	1.2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white, grey
color intensity	light
Odour	without fragrance
Melting point/freezing point	>1300 °C
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	1500 °C
Boiling point or initial boiling point and boiling range	cannot be determined - decomposition occurs
Flammability	non-inflammable
Lower and upper explosion limit	not applicable
Flash point	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	>1000 °C
pH	9-9.5 (10% solution at 20 °C)
Kinematic viscosity	not applicable
Solubility in water	data not available
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	insoluble
Partition coefficient n-octanol/water (log value)	data not available
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	-9.4 (QSAR)
Vapour pressure	data not available
Density and/or relative density	
Density	2.58 - 2.83 g/cm ³ at 20 °C
talc (Mg ₃ H ₂ (SiO ₃) ₄) (CAS: 14807-96-6)	2.7 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	solid: particulate/powder, powder

9.2. Other information

Oxidising properties The product has no oxidizing properties.

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the substance. Inhalation of dust above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date 01st June 2021
Revision date 04th September 2023 Version 1.2

Acute toxicity

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 423	>5000 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation (dust/mist)	LC ₅₀	EPA OPPTS 870.1300	>2100 mg/m ³ of air	4 hours	Rat	F/M
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw		Rat (Rattus norvegicus)	F/M

Skin corrosion/irritation

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)				
Route of exposure	Result	Method	Exposure time	Species
Skin	Not irritating	EU B.46	15 minutes	Human

Serious eye damage/irritation

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)				
Route of exposure	Result	Method	Exposure time	Species
Eye	Not irritating	OECD 405	72 hours	Rabbit

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)				
Route of exposure	Result	Exposure time	Species	Sex
Inhalation (dust/mist)	Not sensitizing	4 hours (5 days/week)	Rat (Rattus norvegicus)	M

Germ cell mutagenicity

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 478	5 days		Rat (Rattus norvegicus)	M

Carcinogenicity

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)							
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Oral	NOAEL	OECD 453	100 mg/kg bw/day	101 days	No effect	Rat (Rattus norvegicus)	F/M

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date 01st June 2021
Revision date 04th September 2023 Version 1.2

talc (Mg ₃ H ₂ (SiO ₃) ₄)							
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Inhalation	NOAEC		18 mg/m ³ of air	103-104 weeks (6 hour/day, 5 days/week)	No effect	Mouse	F/M

Reproductive toxicity

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)						
Effect	Parameter	Method	Value	Result	Species	Sex
Maternal toxicity	LOAEL (F ₁)	OECD 416	>900 mg/kg bw/day	No effect	Rabbit	F

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

talc (Mg ₃ H ₂ (SiO ₃) ₄)								
Route of exposure	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex
Oral	NOAEL	OECD 452	100 mg/kg bw/day	101 days		No effect	Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	NOAEC		10.8 mg/m ³ of air	7,5 hours (5 days/week)	Undefined	Change in blood composition	Rat (Rattus norvegicus)	F/M

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

No data available for the substance. Based on available data the classification criteria are not met.

12.2. Persistence and degradability

No data available for the substance.

12.3. Bioaccumulative potential

No data available for the substance.

12.4. Mobility in soil

No data available for the substance.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects

Not available.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date	01st June 2021		
Revision date	04th September 2023	Version	1.2

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

Packaging waste type code

06 03 00 wastes from the MFSU of salts and their solutions and metallic oxides

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

Not available. Exempted from REACH registration in accordance with Annex V.7.

More information

Industrial Safety and Health Law: This product does not contain harmful or controlled hazardous substances under ISHL. Contains <1% silica.

Toxic Chemical Control Act: This product does not contain chemical substances regulated as toxic, observational, restricted or banned under TCCA.

Dangerous Substance Management Law: This product does not contain chemical substances regulated under DSML.

Waste Management Law: Ensure product is disposed of in accordance with the waste treatment standards prescribed in Waste Management Law.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date	01st June 2021		
Revision date	04th September 2023	Version	1.2

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Other important information about human health protection

The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Eye Irrit. Eye irritation
STOT RE Specific target organ toxicity - repeated exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Talc

Creation date	01st June 2021		
Revision date	04th September 2023	Version	1.2

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REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from
the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 1.2 replaces the SDS version from 14.07.2022. Changes were made in sections 3, 9, 11 and 15.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.