

**EC safety data sheet** according to Regulation (EG) Nr. 1907/2006  
(changed by EU (EU) Nr. 453/2010)

**Current version:** 2.2  
**Issued:** 01.01.2025  
**Replaced version:** 2.1  
**Issued:** 20.02.2024  
**Version:** 2.1



**1. Identification of the substance or mixture and of the company**

**1.1 Product identifier**

**Substance name/Trade name:** Talc – Graphite Mix  
Mixture of talc and graphite

Component 1: Talc  
Content 75-95%  
CAS-No.: 14807-96-6  
EINECS: 238-877-9  
REACH-registration number: Exempted from registration requirements based on attachment V.7  
Other names: Talcum, Steatite, Soap stone

Component 2: Natural graphite  
ID: 2 Graphite  
Content 5-25%  
CAS-No.: 7782-42-5  
EG-No: 231-955-3  
REACH-registration number: None available  
Other names: None

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

None known

**Relevant identified uses of the substance or mixture:**

Improves flows and lubricants, e.g. for agricultural seed drills

**1.3 Details of the supplier of the safety data sheet**

**Producer / Supplier:**

ProGraphite GmbH  
Dr.-Schindler-Str. 9  
94107 Untergriesbach  
Germany  
Telefon +49 (0)8593 9383 188  
Mobil +49 (0)160 7586 976  
info@pro-graphite.com

**1.4 Emergency telephone number**

+49 (0)8593 9383 188  
Monday to Friday: 8:00 – 18:00 h

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**2. Hazards identification**

**2.1 Classification of the substance or mixture**

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This product has not been classified according to the Regulation (EC) No 1272/2008 (CLP) or national regulations. This product has been classified as non-dangerous according to the Dangerous Preparations Directive 67/548/EC (DSD).

**Other hazards:**

Repeated and prolonged exposure to large amounts of talc dust may cause lung injury (pneumoconiosis). The risk of injury depends on the duration and degree of the exposure.  
No other hazards identified.

**Additional hazard information for humans and the environment:**

**Possible harmful physico-chemical effects:**

Not known

**Potential adverse human health effects and symptoms:**

Potentially may cause minor skin and mucous membrane irritation due to mechanical action.

**2.2 Label elements**

**Labeling elements according to Regulation (EC) No. 1272/2008 (substances) / Directive 1999/45/EC (mixtures)**

**Pictogram / hazard symbol:** none

**Signal word / hazard designation:** none

**Hazard statements / R-phrases:** none

**Precautionary statements / S-phrases:** none

**2.3 Other Hazards**

Not known

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**3. Composition/information on ingredients**

**3.1 Substances**

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## Component 1: Talc

Index No: 1 Talc content 75-95%

CAS-No.: 14807-96-6

EINECS: 238-877-9

REACH-registration number: Exempted from registration requirements based on attachment V.7

Other names: Talcum, Steatite, Soap stone

Chemical formula:  $Mg_2Si_4O_{10}(OH)_2$

According to the REACH and CLP regulations, talc is a substance of unknown or variable composition, complex reaction products or biological substances (UVCB, type 4).

Name	CAS	EG- Number	Concentration (weight %)	Classification according to regulation EG 1272/2008
Talc	14807-96-6	238-877-9	>95%	No classification
Chlorite	1318-59-8	215-285-9		No classification
Dolomite	16389-88-1	240-440-2	<1%	No classification
Quartz	14808-60-7	238-878-4	≤1%	No classification

The product contains less than 1 % (by weight) of fine crystalline silica (quartz, CAS No. 14808-60-7).

## Component 2: Graphite

Index-No.: 2 Graphite content 5-25%

Carbon as graphite

Chemical name and formula: Graphite, C

EG-No.: 231-955-3

CAS-No.: 7782-42-5

REACH-registration number: None available

Other names: None

## 4. First aid measures

### 4.1 Description of first aid measures

#### General information:

In case of persisting symptoms and adverse effects, consult a physician. In case of unconsciousness, handling and transport in recovery position.

#### After inhalation:

Remove affected person from the immediate area. Ensure supply of fresh air and respiration. Artificial respiration on respiratory arrest. Seek medical advice.

#### After skin contact:

Clean affected skin with plenty of water and soap. In case of any symptoms, seek medical advice.

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**After eye contact:**

Wash the eyes thoroughly with running water for several minutes. Consult an ophthalmologist if symptoms occur.

**After ingestion:**

Rinse out mouth with water. Drink lots of water. Seek medical advice. Never give anything by mouth to an unconscious person.

**4.2 Indication of any immediate medical attention and special treatment needed**

No information available.

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**5. Firefighting measures**

**5.1 Extinguishing media**

Common extinguishing agents such as water spray, alcohol-resistant foam, sand, CO<sub>2</sub>.

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: vapours of carbon oxides.

**5.3 Advice for firefighters**

Use self-contained breathing apparatus if necessary. Use protective clothing. Adapt extinguishing agents and extinguishing measures to the to the environment.

**5.4**

**Additional information**

No data available

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**6. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation, use personal respiratory protection equipment in accordance with the relevant national regulations, see EN 143: 2000

Risk of slipping!

**6.2 Environmental precautions**

None required.

**6.3 Methods and material for containment and cleaning up**

Remove any spilled product by sweeping up or using a suitable vacuum cleaner.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid inhalation of dust, contact with eyes, skin and clothing. Avoid prolonged or repeated exposition. Provide good ventilation of working area.

#### Technical protective measures

Dust removal at work station. Good ventilation of the work area, washing facilities at the workplace.

#### Further information

None

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep in a cool place and protected from light. Keep container tightly closed in a dry place with good ventilation.

Information on storage conditions

Generally no restrictions with regards to storage temperature; storage in cool, light-protected environment in a well-ventilated place is preferable (packaging stability). Store in a dry place. Can be stored indefinitely in a dry place.

#### Further information on storage conditions

None

### 7.3 Specific end uses

**Industry and sector-specific guidelines:** not applicable

## 8. Exposure controls / Personal protective equipment

### 8.1 Control parameters

Comply with legal limit values for dust exposure (e.g. for total dust, respirable dust and respirable crystalline silica).

A binding European OEL (occupational exposure limit value) for respirable crystalline silica dust was set in Directive (EU) 2017/2398 at 0.1 mg/m<sup>3</sup> measured as a weighted average value for a reference period of 8 hours (TWA).

#### 8.1.1 Occupational exposure limits and/or biological limit values Occupational exposure limits (AGW) Germany

Substance	EG-No.	CAS-No.	Threshold	Time-weighted average per work shift	Remarks
Graphite	235-955-3	7782-42-5	General dust emission threshold according to TRGS 900	1,25 mg/m <sup>3</sup> A 10 mg/m <sup>3</sup> E	E-Fraction: exceedance factor 2, 15 min, 4x per work shift in 1 hour spacing*

E= inhalable dust; A= alveolar dust

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\*total threshold limit per work shift (time-weighted average) cannot be exceeded during a shift.  
Expandable Graphite CAS No. 12777-87-6 TRGS 900 – Threshold

## Remarks:

The general dust limit values apply.

No specific occupational exposure limit value has been established for this mixture, as the AGS has not yet been informed of any findings beyond the non-specific effect on the respiratory organs.

## 8.1.2 DNEL- und PNEC- values

Not applicable

## 8.2 Exposure controls

### 8.2.1 Technical measures for exposure control

Keep dust generation to a minimum. Ensure that the dust load is within the limit values by isolating processes, using ventilation systems or other technical measures. If dust, vapors or mist are generated by the activities of persons, ventilation must be used to ensure that the particle load in the air is within the limit values. Apply organizational measures, e.g. keep people away from dusty areas. Change and clean soiled work clothing.

### 8.2.2 Individual measures for exposure control - Personal protective equipment

#### Body protection:

No specific requirements.

#### Respiratory protection:

Generally respiratory protection is not required. In case of dust exposure, a respiration protection (respiration filter mask type P1 (EN 143)) must be worn. Use respiratory masks and components tested and approved under government standards such as NIOSH (US) or CEN (EU).



#### Eye / face protection:

In case of dust exposure use safety glasses with integrated side protection shield according to DIN (EN 166). Only use safety glasses or other eye protection equipment tested and approved under government standards such as NIOSH (US) or CEN (EU).



#### Hand protection:

The use of protective gloves is recommended. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the resulting standard EN 374.

Recommended gloves,

e.g. Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Breakthrough time: 480 min



#### Workplace hygiene:

Avoid any inhalation of dust.

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### 8.2.3 Environmental exposure controls

Prevent any discharge into the sewerage.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state: solid
- Color : light grey
- Odor : odorless

### 9.2 Important information on health, environmental protection and safety:

a) Physical state	Thin plate like and round particles
b) Appearance/colour	Light grey
c) Odour	No data available
d) Odor threshold	No data available
e) pH-value	pH 7-9
f) Melting point	Melting range >1300°C
g) Boiling point	No data available
h) Flashpoint	No data available
i) Evaporation rate	No data available
j) Flammability	No data available
k) Upper and lower explosion limit	No data available
l) Vapour pressure	No data available
m) Vapour density	No data available
n) Density	2,5g/m <sup>3</sup>
o) Water solubility	Slightly soluble in water
p) Distribution coefficient n-Octanol/Water	No data available
q) Auto-ignition temperature	No data available
r) Decomposition temperature	No data available
s) Viscosity	No data available
t) Explosive properties	No data available
u) Oxidising properties	No data available

### 9.2 Other information

No further information of security relevant parameters necessary.

## 10. Stability and reactivity

### 10.1 Conditions to be avoided

Extreme high temperatures

### 10.2 Reactivity:

Inert, not reactive

### 10.3 Stability:

Stable under recommended storage conditions.

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**10.4 Possibility of hazardous reaction:**

No data available

**10.5 Incompatible materials:**

Strong oxidants

**10.6 Hazardous decomposition products:**

Carbon oxides by heating in air/oxygen.

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**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute oral toxicity:**

LD50 oral - rat – female >2.000 mg/kg

Method: OECD 423

LC50 inhalation – rat – male and female - 4 h - 2.000 mg/m<sup>3</sup>

Method: OECD 403

**Skin corrosion/irritation:**

Skin – rabbit

Result: No skin irritation

Method: OECD 404

**Serious eye damage/eye irritation:**

Eyes - rabbit

Result: No irritation

Method: OECD 405

**Respiratory or skin sensitization:**

Mouse

Does not cause sensibilisation with test animals

Method: OECD 429

**Germ cell mutagenicity:**

**Test type:** in-vitro

S. typhimurium

Result: negative

**Carcinogenicity:**

IARC: In 2006, the IARC concluded that talc, which does not contain asbestos or asbestiform fibers, is not classifiable as a human carcinogen (Group 3). The IARC judged that there is limited evidence that talc-based body powder for perineal dusting is a possible risk factor for ovarian cancer (Group 2B) - IARC Monograph Volume 93, published in 2010. This is not a route of exposure relevant to workers and only applies to one specific use of talc.

No other component of this product - at a concentration equal to or greater



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than 0.1% - is identified by IARC as a probable, possible or proven human carcinogen.

## Reproduction toxicity:

No data available

## 11.2 Practical experience

Long-term inhalation of high concentrations of graphite dust can cause respiratory problems. Prolonged chronic exposure to graphite containing quartz is suspected of promoting the development of pneumoconiosis.

## 11.3 General remarks

Toxic effects when handling talc or graphite are not known. When handled properly and used as intended, the product does not cause any adverse effects through ingestion or skin contact.

## 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

Neglectable

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available

## 13. Disposal considerations

These products must be disposed of in accordance with local and national regulations. As far as possible, recycling has priority over disposal. Disposal must be carried out in accordance with regional regulations.

Avoid dust formation due to residues in packaging. Ensure suitable health protection for employees. Store contaminated packaging materials in closed containers. Do not reuse packaging material. Recycling and disposal of packaging material should be carried out by a certified disposal company. Recycling and disposal of packaging material must be carried out in accordance with local regulations.

### 13.1 Waste treatment methods

Produkt

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Residues have to be disposed of in accordance with the regulations for waste removal and in agreement with a designated disposal company.

## **Contaminated Packaging**

Disposal same as if unused product

## **14. Transport information**

The product is not subject to ADR/GGVS, RID/GGVE, ICAO/IATA, IDMG regulations.

### **14.1 UN-Number**

ADR/RID: - IMDG: - IATA: -

### **14.2 Regular UN shipping name**

ADR/RID/IMDG/IATA: - no dangerous goods

### **14.3 Transport hazard class**

ADR/RID/IMDG/IATA: - no dangerous goods

### **14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

### **14.5 Environmental hazards**

ADR/RID: - IMDG Marine pollutant: - IATA: -

### **14.6 Special precautions for user**

No data available

## **15. Regulatory information**

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

#### **Classification and labeling according to EU directives**

The substance is not subject to labeling

#### **15.1.1 Chemical safety assessment according to directive EG 1907/2006 (REACH)**

A chemical safety assessment (CSA) is not available for graphite.

#### **15.1.2 Classification and labelling according to EU directives 67/548/EWG und 1999/45/EG:**

The substance is not subject to classification.

#### **15.1.3 Hazard symbols, Hazard- and Precautionary statements**

Not applicable

#### **15.1.4 Special labelling of particular preparations / Hazard-determining**

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## **components of labelling**

Not applicable

### **15.1.5 Approval and/or restrictions on use**

Not applicable

### **15.1.6 Other EU regulations**

Not applicable

### **15.1.7 Other requirements, restrictions and prohibitions**

Not applicable

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## **16. Other information**

### **Changes in this version compared to the previous one**

Translation and editorial revision

### **Data sources:**

- Hommel interaktiv
- Gefahrstoffinformationssystem der gewerbl. BG (GESTIS)
- CRC Handbook of Chemistry and Physics
- MSDS of other producers
- Ullmann: Technische Chemie

### **Training for employees**

No special training necessary, general dust protection training sufficient

### **Further information**

#### **Issuer of safety data sheet and contact:**

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Dr.-Schindler-Str. 9  
94107 Untergriesbach  
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### **Important note**

This information is based and compiled on our current state of knowledge and experience. We do not claim the information contained in this safety data sheet to be complete. The reader and user should understand the contained information as a guideline.

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