

Safety Data Sheet

Spodumene concentrate coarse grained

according to Regulation (EC) 1907/2006 (REACH), Regulation (EC) 1272/2008 and (EC) 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name : Spodumene concentrate
 Product form : Mixture of minerals
 Chemical : Spodumene - Quartz
 name EC-No. : 235-098-6 Spodumene; 238-878-4 Quartz
 CAS-No. : 1302-37-0 Spodumene; 14808-60-7 Quartz
 REACH Registration No : Exempted in accordance with Annex V.7

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: Industrial use in raw material, additives formulations

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Email competent person

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

No classification

The product should be handled with care to avoid dust generation. Depending on the type of handling, e.g. grinding, airborne respirable crystalline silica may be generated. Occupational exposure to respirable crystalline silica dust should be monitored and controlled

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] none

2.3. Other hazards

No additional information available

SECTION 3: Composition/information an ingredients**3.1. Substances**

Chemical name : Spodumene $\text{LiAlSi}_2\text{O}_6$, Quartz SiO_2
 CAS-No. : 235-098-6 Spodumene; 238-878-4 Quartz
 EC-No. : 1302-37-0 Spodumene; 14808-60-7 Quartz

The product contains crystalline silica. Processing of the product may generate respirable dust containing crystalline silica, which can cause respiratory infections due to silicosis.

3.2. Mixtures

Mixture of the minerals Spodumene 65-80% and Quartz 20-35% as main components, accessory micaceous minerals and feldspars. Whereby the Quartz (fine fraction) < 1%
 Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Safety Data Sheet

Spodumene concentrate coarse grained

according to Regulation (EC) 1907/2006 (REACH), Regulation (EC) 1272/2008 and (EC) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes

Consult a physician. Show this Safety Data Sheet to the attending physician.

In case of skin contact

Wash thoroughly with soap and water. Seek medical attention if symptoms are present.

In case of contact with eyes

Wash immediately with plenty of water, occasionally lifting the upper and lower eyelids. If present, remove contact lenses. Seek medical attention if irritation persists.

In case of ingestion

If the person is conscious, wash the mouth with water. Seek medical attention if symptoms are present.

In case of inhalation

Remove the person from the exposure area and blow his nose. Breathing fresh air. Seek medical attention if symptoms are present.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Water spray. Dry powder. Foam.

Unsuitable extinguishing media: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of: no further relevant information available.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations. Not combustible.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust, wear respiratory personal protective equipment.

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information: Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Precautions for safe handling: Avoid formation of dust. Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool.

Information about storage in one common storage facility: Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the work space		
14808-60-7 Quartz, SiO ₂	Should be treated as other quartz containing	
United Kingdom	TWA (mg/m ³)	0.1 mg/m ³ respirable
European Union	TWA (mg/m ³) ; Directive 2017/2398	0.1 mg/m ³ respirable

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

In case of repeated or prolonged contact wear gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Eye protection:

In case of dust production: protective goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. If the occupational exposure limit is exceeded: Short term exposure, Wear a self contained breathing apparatus, P2

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Colour

Odour

Odour threshold

pH

Relative evaporation rate (butylacetate=1) Melting point

Freezing point

Boiling point

Flash point

Auto-ignition temperature Decomposition temperature

Flammability (solid, gas)

9.2. Other information

No additional information available
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity (oral)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)
	The product contains crystalline silica, quartz. Processing of the product may generate respirable crystalline silica, which can cause respiratory infections due to silicosis. For the quartz content of fine dust a limit of 0,15 mg/m ³ has to be observed (German regulation).

SECTION 12: Ecological information**12.1. Toxicity**

Acute aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)
 Chronic aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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
 Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste treatment methods : Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.
 European List of Waste (LoVV) code : 01 01 01 - wastes from mineral metalliferous excavation

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information				

14.6. Special precautions for user

- **Overland transport**
 Not applicable

- **Transport by sea**
 Not applicable

- **Air transport**
 Not applicable

- **Inland waterway transport**
 Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

- 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

Exempted from REACH registration in accordance with Annex V.7 of regulation (EC) 1907/2006

Labelling according to EC 1272/2008 the substance is not classified and labeled according to the CLP regulation

Precautionary statements: P260 Do not breathe dust

P402 store in a dry place

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Department issuing data specification sheet:

Contact person

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only, It should not therefore be construed as guaranteeing any specific property of the product
