



Material: SCOREX – Calcium silicate (Granulated blast furnace slag)

MATERIAL SAFETY DATA SHEET

Section I. Identification of the Substance and of the Company

Product Name	SCOREX
Substance name	Calcium silicate
Synonyms	Iron furnace slag, Granulated blast furnace slag
EC-No	266-002-0
CAS-No	65996-69-2
REACH Registration Number	01-2119487456-25-XXXX
Recommended Use	Main applications (non exhaustive list) - Raw material for: Abrasive, Building and construction work, Concrete, Cement, road construction, Glass, Fertilisers, (waste) water treatment.
Uses advised against	This product must not be used in applications other than those identified above, without first seeking advice of the supplier.
Distributor:	GritSablare
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Section II. Hazards Identification

2.1. Classification of the substance or mixture

- This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008.
- Depending on the type of handling and use, airborne dust may be generated. Occupational exposure to dust should be monitored and controlled.
- This product should be handled with care to avoid dust generation.

Classification according to Regulation EC 1272/2008

Not classified

2.2. Label elements

- None.

2.3. Other hazards

- This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH. No other hazard identified.

Section III. Composition / Information on Ingredients

3.1. Substances

Chemical nature

- Substance containing a main component, UVCB.

Substance	EC-No	CAS-No	Classification (1272/2008/EC)	Weight (%)	REACH Registration Number
Slags, ferrous metal, blast furnace slag	266-002-0	65996-69-2	-	100	01-2119487456-25-XXXX

Additional information

- The material does not contain free crystalline quarts as pure substance, thus the potential risk from this substance can be excluded.

Section IV. First Aid Measures

4.1. Description of first aid measures

General advice

No hazards which require special first aid measures.

Eye contact

Rinse with copious quantities of water and seek medical attention if irritation persists.

Skin contact

No special first aid measures necessary.

Ingestion

No first aid measure required.

Inhalation

Movement of the exposed individual from the area to fresh air is recommended.

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

Main symptoms

No acute and delayed symptoms and effects are observed.

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

Notes to physician

No special first aid measures necessary.

Section V. Fire Fighting Measures

5.1. Extinguishing media

Suitable Extinguishing Media

No specific extinguishing media is needed.

Unsuitable Extinguishing Media

No restriction on the extinguishing media to be used.

5.2. Special hazards arising from the substance or mixture

- Non combustible. No hazardous thermal decomposition.
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5.3. Advice for firefighters

- No specific fire-fighting protection is required.
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Section VI. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

- Avoid airborne dust generation, wear respiratory personal protective equipment in compliance with national legislation, see EN 143: 2000.
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6.2. Environmental precautions

- No special requirements.
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6.3. Methods and material for containment and cleaning up

- Avoid dry sweeping and use water spraying or vacuum cleaning systems (with high-efficiency particulate air filter) to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.
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6.4. Reference to other sections

- See sections 8 and 13.
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Section VII. Handling and Storage

7.1. Precautions for safe handling

Protective measures

- Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated.
 - Other suitable controls may include enclosure, isolation, water suppression, respiratory protective equipment.
 - Handle packaged products carefully to prevent accidental bursting.
 - If you require advice on safe handling techniques, please contact your supplier.
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Advice on general occupational hygiene

- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.
- Shower and change clothes at end of work shift.

7.2. Conditions for safe storage, including any incompatibilities

- Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

7.3. Specific end use(s)

- If you require advice on specific uses, please contact your supplier.

Section VIII. Exposure controls / Personal Protection

8.1. Control parameters

Exposure Limits

- Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).
- For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

Substance	European Union	The United Kingdom	France	Germany	Netherlands
Dust				TWA: 0.3 mg/m ³ resp (Dens. 1 g/cm ³) STEL: 2.1 mg/m ³ resp (Dens. 1 g/cm ³) TWA: 4 mg/m ³ inh	TGG: 10 mg/m ³ inh priv

Substance	Italy	Spain	Portugal	Denmark	Poland
Dust		VLA-ED: 3 mg/m ³ resp VLA-ED: 10 mg/m ³ inh		GV: 10 mg/m ³ inh	

Substance	Belgium	Finland	Norway	Hungary	Sweden
Dust	TWA: 3 mg/m ³ resp TWA: 10 mg/m ³ inh	HTP-arvot: 10 mg/m ³ inh inorg		ÅK: 6 mg/m ³ resp ÅK: 10 mg/m ³ inh	NVG: 10 mg/m ³ inh inorg NVG: 5 mg/m ³ resp inorg

Biological Limit Values

- No information available.

Recommended monitoring procedures

- No information available.

Derived No Effect Level (DNEL)

- Not determined.

Predicted No Effect Concentration (PNEC)

Substance	Freshwater	Marine water	Intermittent release	Sewage treatment plant	Freshwater sediment	Marine sediment	Soil	Oral
Slags, ferrous metal, blast furnace slag	5 g/L	5 g/L		10 g/L			1000 mg/kg dw	

8.2. Exposure controls

Appropriate engineering controls

- Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Individual protection measures, such as personal protective equipment

- Eye/face protection
 - Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.
 - Skin protection
 - No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.
 - Hand Protection
 - Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.
 - Respiratory protection
 - In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation. The use of half or full face masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended. See EN 143: 2000 - Respiratory protective devices. Particle filters.

Environmental Exposure Controls

- Avoid wind dispersal.

Section IX. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state @20°C

- Solid

Appearance

- Granular

Colour

- Yellow / Grey

Odour

- Odourless

Professional Blasting Materials

pH	▪ 10 - 11 (20°C)
Melting/freezing point	▪ > 1200 °C
Boiling point/boiling range	▪ Not applicable (solid inorganic substance)
Flash point	▪ Not applicable (not flammable)
Evaporation rate	▪ Not applicable (solid inorganic substance)
Flammability (solid, gas)	▪ Not flammable
Flammability Limits in Air	▪ Not flammable
Explosive limits	▪ Not applicable (not flammable)
Vapour pressure	▪ Not applicable
Vapour density	▪ Not applicable
Relative density	▪ No information available
Solubility	
Water solubility	▪ <1 g/L (@20 °C)
Partition Coefficient (n-octanol/water)	▪ Not applicable (solid inorganic substance)
Autoignition temperature	▪ Not applicable (not flammable)
Decomposition temperature	▪ Not applicable (solid inorganic substance)
Viscosity, dynamic	▪ Not applicable (solid inorganic substance)
Explosive properties	▪ Not explosive
Oxidising properties	▪ Not oxidizing

9.2. Other information

Density	▪ 2.4 kg/dm ³
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Section X. Chemical Stability and Reactivity Information

10.1. Reactivity

▪ Inert, not reactive.

10.2. Chemical stability

▪ Chemically stable.

10.3. Possibility of hazardous reactions

▪ No hazardous reactions

10.4. Conditions to avoid

▪ Not relevant.

10.5. Incompatible materials

▪ No particular incompatibility.

10.6. Hazardous decomposition products

- Not relevant.

Section XI. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

- Based on available data, the classification criteria are not met.

Substance	LD50 Oral	LD50 Dermal	LC50 Inhalation
Slags, ferrous metal, blast furnace slag	>2000 mg/kg (Rat)	>4000 mg/kg (Rat)	> 5234 mg/m ³ (Rat) 4h >230.1 mg/m ³ (Rat) 6h

Skin corrosion/irritation

- Based on available data, the classification criteria are not met.

Serious eye damage/irritation

- Based on available data, the classification criteria are not met.

Substance	Skin corrosion/irritation	Serious eye damage/irritation
Slags, ferrous metal, blast furnace slag	OECD 404, In vivo, Rabbit Result: Non-irritating	ICCVAm App G, In vivo, Rabbit Result: Non-irritating OECD 405, In vivo, Rabbit Result: Non-irritating

Respiratory or skin sensitisation

- Based on available data, the classification criteria are not met.
OECD 406, guinea pig: Negative.

Germ cell mutagenicity

- Based on available data, the classification criteria are not met.
Ames test: Negative. OECD 476: Negative. OECD 473: Negative.

Carcinogenicity

- Based on available data, the classification criteria are not met.

Reproductive toxicity

- Based on available data, the classification criteria are not met.

STOT-single exposure

- Based on available data, the classification criteria are not met.

STOT-repeated exposure

- Based on available data, the classification criteria are not met.
OECD 412, Rat: NOAEL inhalation 24.9 mg/m³.

Aspiration Hazard

- Based on available data, the classification criteria are not met.

Section XII. Ecological Information

12.1. Toxicity

- Contains no substances known to be hazardous for the environment.

Substance	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Slags, ferrous metal, blast furnace slag			EC10: >10 g/L 3h (OECD 209) EC50: >10 g/L 3h (OECD 209) EC100: >10 g/L 3h (OECD 209)	

12.2. Persistence and degradability

- Not relevant.

12.3. Bioaccumulative potential

- Not relevant. Some organisms accumulate Si(OH)₄.

12.4. Mobility in soil

- Negligible.

12.5. Results of PBT and vPvB assessment

- Not relevant.

12.6. Other adverse effects

- No specific adverse effects known.

Section XIII. Disposal Considerations

13.1. Waste treatment methods

Waste from residues / unused products

- Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations.

Packaging

- Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorised waste management company.

EWC Waste Disposal No

- After use:
12 01 16* – Waste blasting material containing dangerous substances
12 01 17 – Waste blasting material other than those mentioned in 12 01 16.

Section XIV. Transportation information

- According to: ADR, RID, ADN, IMDG, IATA/ICAO.

14.1. UN number

- Not relevant.

14.2. UN proper shipping name

- Not relevant.

14.3. Transport hazard class(es)

- ADR: Not classified
- IMDG: Not classified
- ICAO/IATA: Not classified
- RID: Not classified

14.4. Packing group

- Not applicable.

14.5. Environmental hazards

- Not relevant.

14.6. Special precautions for user

- No special precautions.

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

- Not relevant.

Section XV. Regulatory Information

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

National regulatory information

- No information available

International
legislation/requirements

- No information available

15.2. Chemical safety assessment

- No information available.

Section XVI. Other information

Full text of H-Statements referred to under sections 2 and 3

- Not applicable

Indication of the changes made to the previous version of the SDS

- Product identifier, Details of the supplier of the safety data sheet, Disposal considerations, EWC Waste Disposal No.

Training

- Workers must be trained in the proper use and handling of this product as required under applicable regulations.
- Prolonged and/or excessive exposure to respirable dust may cause mucous membrane and respiratory irritation and lung injury with symptoms of shortness of breath and reduced pulmonary function. Inhalation of dust may cause irritation of nose, throat and respiratory passages.

SDS No.

- AP00185 / APNH

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