



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

### 1.1. Product identifier

Trade name:	Fajalit
Chemical name:	Slags, copper smelting
CAS-no.:	67711-92-6
EC-no.:	266-968-3
REACH-no.:	01-21199513228-45
Requirement for safety data sheet:	Not required according to REACH Regulation (EC) No. 1907/2006, Article 31.

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

Relevant identified uses:	Grit blasting
Uses advised against:	Use only according to identified uses.

### 1.3. Details of the supplier of the safety data sheet

Clemco Norge AS  
Industriveien 8  
1481 Hagan  
Norge  
Tel.: +47 23 12 51 20  
E-post: clemco@clemco.no  
www.clemco.no

### 1.4. Emergency telephone number

Giftinformasjonen (Norway): +47 22 59 13 00

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 (CLP):**  
Not classified.

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 (CLP):**  
No labelling acquired.

### 2.3. Other hazards

PBT / vPvB:	This substance does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
Endocrine disrupting properties:	The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Chemical name:	Slags, copper smelting
CAS-no.:	67711-92-6
EC-no.:	266-968-3
REACH-no.:	01-21199513228-45
Comments:	Contains iron silicate. Contains no free quartz or free metals.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general:	In case of doubt or persistent symptoms, consult always a physician. Emergency telephone number, see section 1.4.
In case of inhalation:	Remove person to fresh air and keep comfortable for breathing.
In case of skin contact:	Wash skin with water. Take off contaminated clothing and wash it before reuse.
In case of contact with eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
In case of ingestion:	Rinse mouth. Give water to drink. If discomfort persist, seek medical attention.

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

In case of inhalation:	Dust from this product may cause respiratory irritation.
In case of skin contact:	Dust may irritate the skin in a mechanical way.
In case of contact with eyes:	Dust may irritate eyes mechanically.
In case of ingestion:	May cause discomfort.

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

Other information:	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use straight streams.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard:	Not combustible.
Hazardous decomposition products in case of fire:	Metallic oxides.

#### 5.3. Advice for firefighters

Protection during firefighting:	Wear a self-contained breathing apparatus (SCBA) and appropriate personal protective equipment (PPE).
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures: Ventilate spillage area. Do not breathe dust. Use personal protective equipment as required. Refer to section 8.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Avoid dust formation. Water before sweeping or use a vacuum cleaner.  
Other information: Dispose of materials or solid residues at an authorized site. Refer to section 13.

#### 6.4. Reference to other sections

For further information refer to section 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Avoid dust formation. Do not breathe dust. Avoid contact with eyes. Wear personal protective equipment. Refer to section 8.  
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 dry place. Store in a closed container.  
Incompatible materials: Strong acids. Strong bases. Strong oxidizers. Strong reducing agents.

#### 7.3. Specific end use(s)

See section 1.2.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Workplace exposure limit:

Local name (Norway)	Product identifier	Workplace exposure limit	Comments
Total inhalable dust:	-	10 mg/m <sup>3</sup>	
Respirable dust:		5 mg/m <sup>3</sup>	

Regulatory reference: FOR 2011-12-06 nr. 1358, Regulations concerning Action and Limit values (Norway)

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Personal protective equipment must be chosen on the basis of the risk assessment. The supplier of the protective equipment can assist in the evaluation and choice of the equipment.

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Personal protective equipment: During blasting an approved blast helmet/mask with compressed air supply together with protection clothing and gloves must be used to protect against rebounding blast media and dust.

### Eye / face protection:

Eye protection: Chemical goggles or face shield.  
Standard: EN 166

### Hand protection:

Suitable gloves: Protective gloves. Leather.  
Breakthrough time: Not relevant.  
Glove thickness: Not relevant.  
Standard: EN 388

### Skin protection:

Suitable protective clothing: Wear suitable protective clothing.

### Respiratory protection:

Respiratory protection: In case of dust formation: Dust mask with filter type P2 or P3.  
In case of insufficient ventilation, wear self-contained breathing apparatus.  
Standard: EN 143. EN 12083

### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Eye wash station should be available at the workplace.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Solid
Form:	Granular/sharp-edged
Colour:	Black, glassy surface
Odour:	Odourless
Melting point / freezing point:	1027 - 1341 °C
Boiling point:	Not relevant
Flammability:	Not relevant
Explosion limit:	Not relevant
Flash point:	Not relevant
Auto-ignition temperature:	No auto-ignition
Decomposition temperature:	No data available
pH:	< 10 (40% aqueous dispersion, 20°C)
Kinematic viscosity:	Not relevant
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (Log Pow):	No data available
Vapour pressure:	Not relevant
Density / relative density:	3.11 - 4.2 g/cm <sup>3</sup>
Relative vapour density:	Not relevant
Particle characteristics:	0.2 - 1.4 mm

### 9.2. Other information

Comments: No additional information available.

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### 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 of use.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions may occur on contact with chemicals listed in 10.5. In contact with acids, flammable hydrogen gas may be formed

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. See also section 5.2.

### SECTION 11: Toxicological information

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

##### Acute toxicity

Assessment of classification, acute toxicity (oral),	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of classification, acute toxicity (dermal):	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of classification, acute toxicity (inhalation):	Not classified. (Based on available data, the classification criteria are not met.)

LD50 oral, rat	> 2000 mg/kg (Test method EU B.1 (bis))
LD50 dermal, rat	> 2000 mg/kg (Test method EU B.3)

##### Skin corrosion / irritation

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
Additional information:	Test method EU B.4.

##### Serious eye damage/ irritation

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
Additional information:	Test method EU B.5.

##### Respiratory or skin sensitisation

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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##### Germ cell mutagenicity

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
Additional information:	Test method EU B.13.

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### **Carcinogenicity**

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

### **Reproductive toxicity**

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

### **STOT – single exposure**

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

### **STOT – repeated exposure**

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

### **Aspiration hazard**

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

### **Symptoms of exposure**

In case of inhalation: Dust from this product may cause respiratory irritation.

In case of skin contact: Dust may irritate the skin in a mechanical way.

In case of contact with eyes: Dust may irritate eyes mechanically.

In case of ingestion: May cause discomfort.

## **11.2 Information on other hazards**

Endocrine disruptors properties: The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

Other information: Used product may contain contaminations with greater health risks than the original product.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Hazardous to the aquatic environment, short-term (acute): Not classified. (Based on available data, the classification criteria are not met.)

Hazardous to the aquatic environment, long-term (chronic): Not classified. (Based on available data, the classification criteria are not met.)

### **12.2. Persistence and degradability**

Persistence and degradability: Not relevant. Contains only inorganic substances.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential: No bioaccumulation.

### **12.4. Mobility in soil**

Mobility: Iron sand (fayalite slag) is a complex inorganic substance (UVCB). It contains mainly of ferrous silicate (fayalite) and silicate of aluminum and calcium. Traces of metals can be found in metal/mineral phase or in silicate compounds. Physico-chemical examination of the slag shows that trace metals are strongly bound in the glass/crystal structure of the silicate as well as in other mineral compounds. This results in limited leakage/low water solubility of trace metals present in the matrix. The product contains

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metals that can be leached with water on contact with acidic water (low pH) to a small extent.

### 12.5. Results of PBT and vPvB assessment

PBT / vPvB: This substance does not meet the PBT / vPvB criteria of REACH regulation, annex XIII.

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties: The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

### 12.7. Other adverse effects

Additional information: No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods: Non hazardous waste. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

Additional information: The stated LoW code is indicative and must be considered in relation to the actual condition of the chemical. The final code must be determined by the user, based on the actual use of the chemical.

Used product can be hazardous waste.

European List of Waste (LoW) code: \*12 01 16 - waste blasting material containing dangerous substances  
12 01 17 - waste blasting material other than those mentioned in 12 01 16

## SECTION 14: Transport information

### 14.1. UN number

Not regulated.

### 14.2. UN proper shipping name

Not regulated.

### 14.3. Transport hazard class(es)

Not regulated.

### 14.4. Packing group

Not regulated.

### 14.5. Environmental hazards

Not regulated.

### 14.6. Special precautions for user

Not regulated.

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

Not applicable.

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### SECTION 15: Regulatory information

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

References (laws/regulations) (Norway):	Regulation No. 622 on classification labelling and packaging of substances and mixtures of substances (CLP). Regulation No. 516 on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). FOR 2004-06-01 no 930, Waste Regulations, Ministry of Climate and Environment. FOR 2009-04-01 no 384, on road transportation of dangerous goods.
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#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

#### Abbreviations and acronyms:

LD50	Median lethal dose.
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
Data sources:	Safety Data Sheet from the supplier/manufacturer.
Prepared by:	SDS-Chemie, Bente Frogner

*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.*