

Safety Data Sheet
in compliance with Regulation (EC) 1907/2006 and Regulation (EC) 453/2010

Revision date: 29.3.2011

Version: 1.0

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier

Name: Slag

REACH Registration №: **01-2119548982-26-0000**

Synonyms: Nickel slag

Trade names: OK - GRIT

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

Main applications (non exhaustive list):
Abrasive agent and Roofing material

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

Company name: Sibelco Nordic Oy Ab
Address: Mikkelänkallio 3, 02770 Espoo, Finland
Phone №: + 358 (0)10 217 9800
Fax №: + 358 (0)10 217 9801
E-mail of responsible person for SDS: mattias.haggman@sibelco.com

1.4. Emergency telephone number:

Emergency telephone number: **09 4711** (Myrkytyskeskus, HUS, 00230 Helsinki, Finland)
Available outside office hours ?
Yes

2. HAZARD 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 and in Directive 67/548/EEC.

The product does give potential for generation of respirable dust during handling and use. The product dust may irritate nose and throat. After handling the product it is necessary to wash properly with soap and water. Prolonged or repeating exposing (skin) to product may cause allergy.

Regulation EC 1272/2008:
No classification

Classification EU (67/548/EC):
No classification

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2.2. **Label elements:**
None

Signal Word:
Hazard statement:
Precautionary statement(s):

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Main constituent:

Fayalite (Fe₂SiO₄)

Amount: ca 92 %
EINECS:
CAS:

Silicate glass

Amount: ca 4,5 %
EINECS:
CAS:

Magnetite (Fe₃O₄)

Amount: ca 3,2 %
EINECS:
CAS:

Nickel

Amount: 0.01 – 0.44 %

Copper

Amount: 0.01 – 0.22 %

Impurities:

4. FIRST AID MEASURES

4.1. **Description of first aid measures**

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

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

Ingestion: Do not induce vomiting. Drink lots of water. Take contact with medical staff if needed.

Skin contact: Wash with water and soap.

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- 4.2. **Most important symptoms and effects both acute and delayed**
Prolonged exposure can cause skin allergy or injuries.
- 4.3. **Indication of any immediate medical attention and special treatment needed**
No specific actions are required.

5. FIRE-FIGHTING MEASURES

- 5.1. **Extinguishing media**
No specific extinguishing media is needed.
- 5.2. **Special hazards arising from the substance or mixture**
Non combustible. No hazardous thermal decomposition.
- 5.3. **Advice for firefighters**
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6. ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures**
Avoid airborne dust generation, wear personal protective equipment in compliance with national legislation, safety glasses, -gloves and other protective cloths.
If there is dust in the air use at least type P2 respirator protector.
- 6.2. **Environmental precautions**
Do not let the slag to spread to the environment. Nickel slag does not cause significant danger to people or to the environment.
- 6.3. **Methods and material for containment and cleaning up**
Collect the spillage. Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.
- 6.4. **Reference for other sections**
See sections 8 and 13.

7. HANDLING AND STORAGE

- 7.1. **Precautions for safe handling**
Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier.
- Do not to eat, drink and smoke in work areas; wash hands after use; remove contaminated clothing and protective equipment before entering eating areas.
- 7.2. **Conditions for safe storage, including any incompatibilities**
- Technical measures/Precautions**
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.

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- 7.3. **Specific end use(s)**
If you require advice on specific uses, please contact your supplier.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).

The OEL (Occupational Exposure Limit) for nickel dust is 0,1 mg/m³ in Finland, measured as an 8 hour TWA (Time Weighted Average). For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

8.2. Exposure controls

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8.2.1. 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.

8.2.2. Individual protection measures, such as personal protective equipment

- a) Eye protection: Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.
- b) 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.
- c) 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.
- d) Respirator 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 (minimum P2-type is recommended).

8.2.3. Environmental exposure controls:

Avoid wind dispersal.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Solid material of varying size depending on the application: Granular, graded or powder material

Color: dark, almost black

- a) Odour: odourless

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- b) Odour threshold: Not relevant
- c) Melting point: 1404 °C
- d) Relative density: 3,77 g/cm³
- e) Solubility: Poorly soluble
- f) Auto.ignition temperature: No self-ignition
- g) Explosive properties: Not explosive
- h) Oxidising properties: Not oxidizing

9.2. Other information

No other information

10. STABILITY AND REACTIVITY

- 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.

11. TOXICOLOGICAL INFORMATION

- 11.1. **Information on toxicological effects**
 - a) acute toxicity:
Not toxic
 - b) skin corrosion/irritation:
Based on available data, the classification criteria are not met.
 - c) serious eye damage/irritation:
Based on available data, the classification criteria are not met.
 - d) respiratory or skin sensitisation:
Nickel can cause skin sensitisation
 - e) germ cell mutagenicity:
Based on available data, the classification criteria are not met.
 - f) carcinogenicity:
Based on available data, the classification criteria are not met.
 - g) reproductive toxicity:
Based on available data, the classification criteria are not met.
 - h) STOT-single exposure:
Based on available data, the classification criteria are not met.
 - i) STOT-repeated exposure:
Based on available data, the classification criteria are not met.
 - j) Aspiration hazard:
Based on available data, the classification criteria are not met.

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12. ECOLOGICAL INFORMATION

- 12.1. **Toxicity**
Not toxic
- 12.2. **Persistence and degradability**
Not relevant
- 12.3. **Bioaccumulative potential**
Not relevant
- 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.

13. 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.

14. TRANSPORT INFORMATION

- 14.1. **UN Number:** Not relevant
- 14.2. **UN proper shipping name:** Not relevant
- 14.3. **Transport hazard classes**
UN number:
ADR: Not classified
IMDG: Not classified
ICAO/IATA: Not classified
RID: Not classified
- 14.4. **Packing Group:** Not relevant
- 14.5. **Environmental hazards:** Not relevant

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- 14.6. **Special precautions for user:** No special precautions.
- 14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not relevant

15. REGULATORY INFORMATION

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
International legislation/requirements:
- 15.2. **Chemical safety assessment**
Done

16. OTHER INFORMATION

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

The MSDS has been updated according to CLP-regulation

Third party materials

Insofar as materials not manufactured or supplied by Sibelco Nordic are used in conjunction with, or instead of Sibelco Nordic materials, it is the responsibility of the customer himself to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Sibelco Nordic's OK - GRIT in conjunction with materials from another supplier.

Liability

Such information is to the best of Sibelco Nordic knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Training

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.