

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

# Labshop

Chemicals, Restoration and Art Supplies

## 77750 Potassium Silicate 28/30°

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Revised edition: 07.11.2016

Version: 4

Printed: 09.04.2018

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

Product Name: Potassium Silicate 28/30°

Article No.: 77750

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses: Chemical for different applications

Uses advised against:

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Interlabshop B.V.  
Address: Lage Brink 23, 7317 BD Apeldoorn The Netherlands  
Tel./Fax.: Tel. +3155-5215016  
Internet: www.Labshop.nl  
EMail: labshop@labshop.nl

Importer: --

1.4. Emergency No. --

Emergency No.: --

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### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

*The material is not subject to classification according to EC lists.*

Safety Phrases:

Possible Environmental Effects:

#### 2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

Hazard designation: Not applicable.

Signal word:

Hazard designation:

Safety designation:

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.

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*Hazardous components for labelling:*

### 2.3. Other Hazards

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## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Aqueous solution

*Information on Components / Hazardous Ingredients:*

Silicic acid, potassium salt (Xi; R36/37/38; H315-319-335); REACH Reg. No. 01-2119456888-17-xxxx	< 40%	CAS-Nr: 1312-76-1 EINECS-Nr: 215-199-1 EC-Nr:
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*Additional information:*

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## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes immediately.*

*After inhalation:*

*Supply fresh air.*

*After skin contact:*

*Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.*

*If irritation continues consult a physician.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes. Consult physician.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.*

*Do not induce vomiting.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Slightly irritating to eyes.*

*Effects:*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Product itself does not burn.*

*Unsuitable extinguishing media:*

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### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*No information available.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear protective clothing.*

*Floor may be slippery; use care to avoid falling.*

*Avoid contact with eyes and skin.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

*Contact local authorities if product pollutes soil or vegetation.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, universal absorbent, Oil Dri) and dispose accordingly.*

*Clean with water.*

### 6.4. Reference to other Sections

*Longterm contact with air causes product to solidity. Use acids for neutralization (careful: risk of splashing); as a result solid silicates/silicic acid can be precipitated.*

*Dispose of contaminated material according to Section 13.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide adequate ventilation.*

*Avoid the formation of aerosol.*

*Open and handle container with care.*

*Hygienic measures:*

*Avoid contact with eyes and skin.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry room.*

*Do not store together with acids.*

*Protect from frost.*

*Requirements for storage areas and*

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*containers:*

Observe official regulations on storage and handling of water hazardous substances.  
Suitable container material: Polyethylene, stainless steel, steel.

*Information on fire and explosion protection:*

Product is not combustible.  
Do not store together with: acids.

*Storage class (VCI):*

10 resp. 12 (TRGS 510, Storage of hazardous materials in transportable containers)

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

Does not contain any components with workplace limit values.

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

0.74 mg/kg bw/d (consumer, skin contact / swallowing, long-term exposure - systemic)  
1.49 mg/kg bw/d (worker, skin contact, long-term exposure - systemic)  
1.38 mg/m<sup>3</sup> (consumer, inhalation, long-term exposure - systemic)  
5.61 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic)

*Predicted No-Effect Concentration (PNEC):*

Fresh water: 7.5 mg/l  
Seawater: 1 mg/l  
Sporadic release: 7.5 mg/l

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

No further measures, see Section 7.

*Personal Protection*

*General protective measures:*

Remove contaminated clothing immediately.  
Avoid contact with eyes and skin.  
Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

*Respiratory protection:*

In case of formation of aerosol or mist.

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### Hand protection:

*Protective gloves*

*Protective gloves should be changed regularly, especially after intensive contact with the product.*

### Protective glove material:

*Natural rubber (NR), nitrile rubber (NBR)*

*Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.*

### Eye protection:

*Tightly fitting safety goggles (EN 166).*

### Body protection:

*Protective clothing.*

### Environmental precautions:

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>11.5 (10 g/l; 20°C)</i>
<i>Melting temperature:</i>	<i>&lt; 0°C</i>
<i>Boiling temperature:</i>	<i>&gt; 100°C</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not determined</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>1.25 g/cm<sup>3</sup> (20°C)</i>
<i>Solubility in water:</i>	<i>completely miscible</i>
<i>Coefficient of variation (n-</i>	

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*Octanol/Water):*

*not determined*

*Auto-ignition temperature:*

*No information available.*

*Decomposition temperature:*

*No data available.*

*Viscosity, dynamic:*

*20 - 70 mPa.s (20°C)*

*Explosive properties:*

*Product does not present an explosion hazard.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Contact with acids (e.g. also the slow contact with the carbon dioxide in the air) can cause the precipitation of solid silicic acid.*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*No decomposition if used according to specifications.*

### 10.2. Chemical Stability

*The product is stable.*

### 10.3. Possibility of Hazardous Reactions

*Exothermic reaction (strong) with acids.*

*Reactions with base metals: development of hydrogen.*

*Corrosive to metals.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid heat.*

*Thermal decomposition:*

*Loss of crystal water when heated.*

### 10.5. Incompatible Materials

*Acids, metals.*

### 10.6. Hazardous Decomposition Products

*Formation of hydrogen after reaction with metals.*

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### 10.7. Further Information

*Product sticks on glass walls and etches these.*

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

#### *Acute Toxicity*

*LD50, oral: > 2000 mg/kg (rat)*

*LD50, dermal: No information available.*

*LC50, inhalation: No information available.*

#### *Primary effects*

*Irritant effect on skin: Slight irritant effect.*

*Irritant effect on eyes: Slight irritant effect*

*Inhalation: No information available.*

*Ingestion: No information available*

*Sensitization: No sensitizing effects known.*

*Mutagenicity: No relevant data found.*

*Reproductive toxicity: No information available.*

*Carcinogenicity: No relevant data found.*

*Teratogenicity: No information available.*

*Specific target organ toxicity (STOT): No relevant data found.*

*Additional toxicological information: Aerosols may cause damage to eyes and respiratory system.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity: LC50: > 100 mg/l*

*Daphnia toxicity: EC50: > 100 mg/l (Daphnia magna)*

*Bacteria toxicity:*

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*EC50: > 100 mg/l*

*Algae toxicity:*

*No information available.*

### 12.2. Persistency and Degradability

*Inorganic substance. Biological degradability is not affected.*

### 12.3. Bioaccumulation

*No bioaccumulation expected.*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*Not applicable.*

### 12.6. Other Adverse Effects

*Water hazard class:*

*1 (German Regulation) (Assessment by list): slightly hazardous.  
Do not allow undiluted product or large quantities of it to reach ground water, waterways or sewage system.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*Must not be disposed together with household garbage.*

*Do not let product enter water systems.*

*Must be treated as toxic waste according to local laws and regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR (land transportation).*

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

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*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

### 14. 4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

### 14. 5. Environmental Hazards

*None*

### 14. 6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

### 14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*not applicable*

### 14. 8. Further Information

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## 15. Regulatory Information

### 15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*1, slightly hazardous for water (German Regulation, self-assessment)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

### 15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

### 15. 3. Further Information

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## 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*