SAFETY DATA SHEET
FINNGARD SILIKAATTIPOHJUSTE (Silicate Primer)

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

1.1 Product identifier

Product name: FINNGARD SILIKAATTIPOHJUSTE (Silicate Primer)
Product description: Waterborne silicate paint.

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

Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet

Manufacturer or Distributor
Tikkurila Oyj
P.O. Box 53
FI-01301 VANTAA
FINLAND
Telephone +358 20 191 2000

E-mail address of person responsible for this SDS: Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

Telephone number: 112 (24h)
Supplier or Manufacturer

Tikkurila Oyj
Telephone number: +358 20 191 2000 (GMT +2) Mon-Fri 8-16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Eye Dam. 1, H318
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Signal word: Danger
Hazard statements: H318 - Causes serious eye damage.
Precautionary statements

General: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

Prevention: P261 - Avoid breathing mist/spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves and eye or face protection.
Response: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or physician.

Storage: Not applicable.

Disposal: Not applicable.

Hazardous ingredients: Potassium silicate

Supplemental label elements: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures: Mixture

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium silicate</td>
<td>EC: 215-199-1 CAS: 1312-76-1</td>
<td>&lt;10</td>
<td>Skin Irrit. 2, H315 Eye Dam. 1, H318 See Section 16 for the full text of the H statements declared above.</td>
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</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

SECTION 4: First aid measures

4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately.

Inhalation: Remove to fresh air.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious). If significant amounts have been swallowed or if symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.
See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

None.
SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.

Unsuitable extinguishing media: Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

This product is not classified as flammable. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special protective equipment for fire-fighters

5.3 Advice for firefighters

Suitable extinguishing media: Alcohol resistant foam, CO₂, powders or water spray/mist. Do not use a direct water jet that could spread the fire.

Unsuitable extinguishing media: Do not use a direct water jet that could spread the fire.

Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.

Do not use a direct water jet that could spread the fire.

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5.5 Advice for firefighters

Suitable extinguishing media: Alcohol resistant foam, CO₂, powders or water spray/mist. Do not use a direct water jet that could spread the fire.

Unsuitable extinguishing media: Do not use a direct water jet that could spread the fire.

Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist.

Do not use a direct water jet that could spread the fire.

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid breathing vapor or mist. Avoid direct skin contact with product. See Section 8 for information on appropriate personal protective equipment.

6.2 Environmental precautions

Do not allow to enter drains, water courses or soil.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with water or detergent. Avoid using solvents.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid inhalation of dust from sanding. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature is +5°C to +25°C. Do not allow to freeze. Store in accordance with local regulations.

7.3 Specific end use(s)

None.
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No exposure limit value known.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNELs/DMELs
No DNELs/DMELs available.

PNECs
No PNECs available.

8.2 Exposure controls

Appropriate engineering controls
Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn (see Personal protection). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection: Wear eye/face protection (EN166).
Hand protection: Wear protective gloves. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Recommended glove material (EN374):
> 8 hours (breakthrough time): nitrile rubber
Not recommended: PVA gloves
Skin protection: Wear appropriate personal protective clothing to prevent skin contact.
Respiratory protection: If ventilation during spray-application is inadequate, use respirators with combination filter AP, gas/dust filter (EN405:2001). Wear a respirator with type P2 filter during sanding (EN149:2001). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: Liquid.
Color: Coloured
Odor: Mild.
Odor threshold: Not relevant for the hazard assessment of the product.

pH: 11.3 to 11.4

Melting point/freezing point: Not available.
Initial boiling point and boiling range: Not available.

Flash point: > 100 °C
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits: Not available.

Vapor pressure: Not available.
Vapor density: Not available.
Density: 1.1 g/cm³
Solubility(ies): Miscible in water.
**SECTION 10: Stability and reactivity**

**10.1 Reactivity**
See Section 10.5.

**10.2 Chemical stability**
Stable under recommended storage and handling conditions (see Section 7).

**10.3 Possibility of hazardous reactions**
Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid**
Avoid extreme heat and freezing.

**10.5 Incompatible materials**
Keep away from the following materials to prevent strong exothermic reactions:
- oxidizing agents
- strong acids
- strong alkalis

**10.6 Hazardous decomposition products**
When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**
There is no test data available on the product itself. The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. Long term exposure to spray mist may produce respiratory tract irritation. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Acute toxicity**
Not classified.

**Irritation/Corrosion**
Causes serious eye damage.

**Sensitization**
The product is not classified as sensitizing by skin contact, but it contains the following preservatives or other biocides which may produce an allergic reaction:
- 1,2-benzisothiazol-3(2H)-one (BIT)
- 2-methyl-2H-isothiazol-3-one (MIT)

**Mutagenicity**
Not classified.

**Carcinogenicity**
Not classified.

**Reproductive toxicity**
Not classified.

**Teratogenicity**
Not classified.

**Specific target organ toxicity (single exposure)**
Not classified.
Specific target organ toxicity (repeated exposure)
Not classified.

Aspiration hazard
Not classified.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product.
Do not allow to enter drains, water courses or soil.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

12.1 Toxicity
No specific data.

12.2 Persistence and degradability
No specific data.

12.3 Bioaccumulative potential
No specific data.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})
Not available.

Mobility
Not available.

12.5 Results of PBT and vPvB assessment

PBT
Not applicable.

vPvB
Not applicable.

12.6 Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal
Remove as much product as possible from the tools before cleaning. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

Packaging

Methods of disposal
Empty packaging should be recycled or disposed of in accordance with national regulations.

Waste code Waste designation
08 01 11 waste paint and varnish containing organic solvents or other hazardous substances
08 01 12 waste paint and varnish other than those mentioned in 08 01 11

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Special precautions
No additional information.
SECTION 14: Transport information

This product is not regulated for carriage according to ADR/RID, IMDG, IATA.

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<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
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<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>-</td>
<td>-</td>
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<tr>
<td>14.3 Transport hazard class(es)</td>
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<td>14.4 Packing group</td>
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<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
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<td>Additional information</td>
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14.6 Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

Europe inventory: Not determined.

VOC Directive: This product is in scope of Directive 2004/42/CE.

15.2 Chemical Safety Assessment: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
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<th>Justification</th>
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<tr>
<td>Eye Dam. 1, H318</td>
<td>Calculation method</td>
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Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.