



Material SAFETY DATA SHEET

Sethard S

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Sethard S**

Description: Liquid surface hardener and dust proofer for concrete surfaces

Manufacturer: **Ayla Construction Chemicals**
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MSDS Number: DCP/05/03/10

2: COMPOSITION / INFORMATION ON INGREDIENTS

| | | | | |
|-------------------------|----------------------------|------------------|-----------|---------|
| Composition: | Mineral silicate solution. | | | |
| Hazardous Ingredient(s) | Symbol | Risk Phrases | CAS No. | % |
| Mineral silicate | Xn | R20/22, 36/37/38 | 1344-09-8 | 30 - 50 |

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Harmful by inhalation and if swallowed.
Irritating to eyes, respiratory system and skin.

Classification: Xn. R20/22, 36/37/38

4: FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15minutes. Lifting upper and lower eye lids occasionally. Get medical attention immediately.

Skin: Immediately flush eyes with plenty of water for at least 15minutes. Remove contaminated clothes and shoes. Get medical attention. Wash clothes before reuse.

Inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.

Ingestion: Do not induce vomiting. Give large quantities of water. Never give anything by mouth to unconscious person. Get medical attention immediately.



5: FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, powder, foam or water. Don't Use water jets.

Personal Protective Equipment: Self-contained breathing apparatus and full protective clothing.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Caution! Floor and other surfaces may be slippery. Ventilate area of leak or spill. Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Recover liquid when possible, collect liquid in appropriate container or soak up with inert absorbent such as sand. Gather into labeled containers. Dispose off as applicable regulations.

7: HANDLING AND STORAGE

Handling: Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Keep container tightly closed in a cool dry area away from sources of heat and out of direct sunlight to avoid pressure build up. Store in conformity with local fire regulations. Store away from sources of ignition.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible.

Skin Protection: Wear impervious clothing, including boots, gloves, lab coats, aprons or coveralls.

Respiratory Protection: A system of local and/or general exhaust is recommended to keep employee below the Airbone Exposure Limit. If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respiratory supplier.

Hygiene Measures: Change contaminated clothing and clean before re-use.

Engineering Controls: Use only in well ventilated areas. Local exhaust ventilation is recommended.

Exposure Guidelines:

| | |
|-----------------|----------------------|
| OSHA | PEL |
| Sodium silicate | 80 mg/m ³ |



9: PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------|-----------------|
| Form: | Viscous liquid |
| Colour: | Clear to cloudy |
| Odour: | Odourless |
| pH (concentrate): | 11 - 12.5 |
| Boiling Point (°C): | 102 |
| Relative Density (@25°C): | 1.35 - 1.45 |
| Water Solubility: | Soluble |

10: STABILITY AND REACTIVITY

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|---------------------------|--|
| Stability: | Stable under normal conditions. |
| Chemical Incompatibility: | Fluorine, mineral acids, organic acids, organic materials. |
| Hazardous Polymerization: | Will not occur. |

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Acute Oral effect LD50 > 2000 mg/kg (rat).

Health Effects

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|----------------|--|
| On Eyes: | A strong alkaline irritant. Alkaline exposures produce severe irritation with effects similar to dose of dilute caustics. Inflammation or burns with possible damage to the eye tissues can occur together with tearing and considerable pain. |
| On Skin: | A strong alkaline irritant. Causes severe irritation. Symptoms include redness, itching and pain. Dries to form a glass film which can cut skin. Solid sodium silicate: dermal contact with alkaline corrosives may produce pain, redness, severe irritation or full thickness burns. |
| By Inhalation: | A strong alkaline irritant. Inhalation can cause severe irritation of mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. High concentrations may cause long damage. |
| By Ingestion: | A strong alkaline irritant. Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Solid sodium silicate: Alkaline corrosive ingestion may produce burns to the lips, tongue, oral mucosa, upper airway, esophagus and occasionally stomach. |



12: ECOLOGICAL INFORMATION

| | |
|---------------------------|---|
| Environmental Assessment: | Not determined. |
| Mobility: | Viscous liquid. |
| Degradability: | Not determined. |
| Bioaccumulation: | Not determined. |
| Environmental Toxicity: | 96hr LC50 Lepomis macrochirus: 301 – 478 mg/ltr. 96hr LC50 Brachydanio rerio: 3185 mg/ltr. 96hr LC50 Daphnia magna: 216 mg/ltr. |

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

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|-----------------------------|--|
| Unused Product: | Dispose off through an authorized waste contractor to a licensed site. |
| Used/ Contaminated Product: | As for unused product. |
| Packaging: | Must be disposed off through an authorized waste contractor. |

14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:

Xn



Harmful

Named Ingredients: Sodium silicate

Risk Phrases:

R20/22 Harmful by inhalation and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.



16: OTHER INFORMATION

Issue Date: 25/11/2009 Revised Date: 07.11.2016

Disclaimer: The information contained herein is derived from the best available sources and is believed to be accurate. However, no guarantee is expressed or implied regarding the accuracy of the data given in the use of this product.