

Safety Data Sheet

Infosafe No™ ACE3J Issue Date : December 2016 ISSUED by ACECHEM



Product Name **SODIUM SILICATE**

Classified as hazardous

1. Identification

| | | |
|--|--|---------------------|
| GHS Product Identifier | SODIUM SILICATE | |
| Company Name | ACE CHEMICAL COMPANY (ABN 35619819300) | |
| Address | 119A Mooringe Avenue Camden Park S.A 5038 Australia | |
| Telephone/Fax Number | Tel: 08-8376 0844 Fax: 08-8295 8563 | |
| Emergency phone number | 0438760844 | |
| E-mail Address | acechem@bigpond.com | |
| Recommended use of the chemical and restrictions on use | Catalysts and silica gels; soaps and detergents; adhesives, especially sealing and laminating paper board containers; water treatment; bleaching and sizing of textiles and paper pulp; ore treatment; soil solidification; glass foam; pigments; drilling fluids; binder for foundry cores and molds; waterproofing mortars and cements; impregnating wood. | |
| Other Names | Name | Product Code |
| | SODIUM SILICATE SOLUTION | S853358 |
| | SODIUM SILICATE SOLN | |
| | Water glass | |
| | Silicic acid, sodium salt | |
| | Silicate of soda | |
| Other Information | Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control. | |

2. Hazard Identification

| | | |
|--|---|---|
| GHS classification of the substance/mixture | Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2 | |
| Signal Word (s) | DANGER | |
| Hazard Statement (s) | H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. | |
| Pictogram (s) | Corrosion, Exclamation mark | |
| |  |  |
| Precautionary statement - Prevention | P264 Wash contaminated skin thoroughly after handling P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. | |
| Precautionary statement - Response | P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water. 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 doctor/physician. P330 Rinse mouth. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. | |
| Precautionary statement - Disposal | P501 Dispose of contents/container to | |
| Other Information | As with any chemical ingestion, inhalation of vapour, prolonged or repeated skin contact should be avoided by good occupational work practice. | |

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3. Composition/information on ingredients

| Ingredients | Name | CAS | Proportion |
|-------------|------|-----|------------|
| | Sio2 | | 27 % |
| | Na2o | | 8.6 % |

4. First-aid measures

| | |
|-------------------------|--|
| Inhalation | Seek medical attention. |
| Ingestion | Seek immediate medical assistance. |
| Skin | Remove contaminated clothing and wash skin thoroughly. Alkali-soaked clothing should be removed while under the safety shower and affected parts should be continuously flooded with running water for a minimum of 30 mins. NO attempt should be made to neutralize the alkali with acid solutions, as this could aggravate the burns. Decontaminate clothing before re-use. Seek immediate medical assistance. |
| Eye contact | Urgently seek medical assistance. Transport to hospital or medical centre. |
| Advice to Doctor | Consult Poisons Information Centre. |

5. Fire-fighting measures

6. Accidental release measures

| | |
|------------------------------|--|
| Spills & Disposal | Hot water is more effective. Slippery when spilt. Avoid accidents, clean up immediately. Wear full protective clothing. For disposal refer to State Waste Management Authority. |
|------------------------------|--|

7. Handling and storage

| | |
|---|--|
| Conditions for safe storage, including any incompatibilities | Store away from acids. At all times to be stored away from foodstuffs. Sodium silicate solutions are strongly alkaline and therefore incompatible with Aluminium, copper, brass, bronze, zinc, and tin. Mild steel is the most suitable material of construction for drums, tanks, valves, pipework, etc. Concrete storage tanks can be used but must be strong enough to hold the weight of sodium silicate to be stored and thick enough to prevent seepage of water. |
|---|--|

8. Exposure controls/personal protection

| | |
|---|--|
| Other Exposure Information | Not established |
| Appropriate engineering controls | Use with adequate ventilation. |
| Personal Protective Equipment | The following personal protective equipment should be worn. Safety glasses, goggles or faceshield as appropriate. Appropriate protective clothing. Use good occupational work practice. |

9. Physical and chemical properties

| | |
|---------------------------------|--|
| Appearance | Colourless or pale green viscous liquid. |
| Boiling Point | No Data |
| Specific Gravity | (Water = 1) 1.3-1.8 |
| pH | 11.6 - 12.7 |
| Vapour Pressure | No Data |
| Flash Point | No Data |
| Flammability | Non combustible material. |
| Flammable Limits - Lower | No Data |

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Molecular Weight 122.1

Other Information VISCOSITY @ 20 C: 25 - 50000 cp

10. Stability and reactivity

Possibility of hazardous reactions INCOMPATIBILITY: This substance is a strong base, it reacts violently with acids and is corrosive towards aluminium and zinc.
OTHER INFORMATION: Absorbs carbon dioxide on exposure to air, which results in the deposition of insoluble silica.

11. Toxicological Information

Toxicology Information EYES: Severe irritant
SKIN: Irritant

Ingestion Short term exposure by ingestion is considered to be toxic.
Ingestion may cause severe injury or death.
May cause sore throat, abdominal pain.

Inhalation Substance can be absorbed into the body by inhalation. Irritating to the respiratory tract. May cause sore throat, coughing, shortness of breath.
However, due to the low vapour pressure at ambient temperature, not normally an inhalation risk.

Skin Corrosive to skin causing burns.
This substance irritates skin.
May cause redness and pain.

Eye Eye contact can result in severe or permanent injury.
Irritating to the eyes.
May cause redness and pain of the eyes.

12. Ecological information

Environmental Protection TLm 96: 100-10 ppm

13. Disposal considerations

14. Transport information

15. Regulatory information

Poisons Schedule S5

Packaging & Labelling As required by the Standard for the Uniform Scheduling of Drugs and Poisons.
At all times to be stored away from foodstuffs. Sodium silicate solutions are strongly alkaline and therefore incompatible with Aluminium, copper, brass, bronze, zinc, and tin. Mild steel is the most suitable material of construction for drums, tanks, valves, pipework, etc. Concrete storage tanks can be used but must be strong enough to hold the weight of sodium silicate to be stored and thick enough to prevent seepage of water. Keep containers closed at all times.

16. Other Information

Contact Person/Point Ace Chemical Company
119A Mooringe Avenue
Camden Park S.A. 5038
Tel: 08-8376 0844 Fax: 08-8295 8563
or Poisons Information Centre
Tel: 13 11 26
Disclaimer:
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Empirical Formula & Structural Formula Na₂O.SiO₂

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