

**SAFETY DATA SHEET (SDS)****Rev 1.0**

Prepared: May 2026

GHS compliant | Rev 1.0 | Prepared: May 2026

GHS05  
CorrosiveGHS07  
Harmful / Irritant**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY**

|                                  |   |
|----------------------------------|---|
| <b>Product Name</b>              | <b>Sodium Silicate</b>  |
| <b>Product Type</b>              | Sodium Silicate - corrosive / irritant chemical   |
| <b>Chemical Family</b>           | Sodium Silicate   |
| <b>CAS No. (Sodium Silicate)</b> | 1344-09-8   |
| <b>CAS No. (Other Component)</b> | N/A   |
| <b>Intended Use</b>              | Industrial / professional use as described on the SPC product page.   |
| <b>Restrictions on Use</b>       | Industrial / professional use only. Confirm suitability for final application before use.   |
| <b>Manufacturer / Supplier</b>   | Supreme Petro Chemicals   |
| <b>Address</b>                   | Periyamet, Chennai - 600 003, Tamil Nadu, India   |
| <b>Emergency Contact</b>         | Sudarshan - 8197947045; Sanketh - 8608780096  |
| <b>Email</b>                     | admin@supremepetrochemicals.com   |
| <b>SDS Revision Date</b>         | May 2026  |
| <b>SDS Version</b>               | 1.0   |
| <b>Product Page URL</b>          | <a href="https://www.supremepetrochemicals.com/products/sodium-silicate">https://www.supremepetrochemicals.com/products/sodium-silicate</a> |

**SECTION 2 HAZARD IDENTIFICATION**

|   |   |
|---|---|
| <b>Met. Corr. 1; Acute Tox. 4; Skin Corr. 1; Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3</b> |   |
| <b>H314</b>   | H314: Causes severe skin burns and eye damage |
| <b>H335</b>   | H335: May cause respiratory irritation        |
| <b>H290</b>   | H290: May be corrosive to metals              |
| <b>H302</b>   | H302: Harmful if swallowed                    |
| <b>H315</b>   | H315: Causes skin irritation                  |
| <b>H318</b>   | H318: Causes serious eye damage               |
| <b>H319</b>   | H319: Causes serious eye irritation           |
| <b>H371</b>   | H371: See source GHS notification text        |

|                    |        |
|--------------------|--------|
| <b>Signal Word</b> | DANGER |
|--------------------|--------|



|                |  |
|----------------|--|
| GHS Pictograms | GHS05 (Corrosive)   GHS07 (Harmful / Irritant) |
|----------------|--|

**Hazard Statements:**

- H314 - Causes severe skin burns and eye damage
  - H335 - May cause respiratory irritation
  - H290 - May be corrosive to metals
  - H302 - Harmful if swallowed
  - H315 - Causes skin irritation
  - H318 - Causes serious eye damage
  - H319 - Causes serious eye irritation
- H371 - See source GHS notification text

**Precautionary Statements (Prevention):**

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

**Precautionary Statements (Response):**

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.

**Precautionary Statements (Storage & Disposal):**

- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

| Component       | CAS No.   | EC No.                  | % w/w or concentration range | GHS Classification   |
|-----------------|-----------|-------------------------|------------------------------|--|
| Sodium Silicate | 1344-09-8 | See ECHA / supplier SDS | 100                          | Met. Corr. 1; Acute Tox. 4; Skin Corr. 1; Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3 |

**Note:** Percentages are by volume. Full text of H-statements listed in Section 16.

**SECTION 4 FIRST AID MEASURES**

|            |  |
|------------|--|
| Inhalation | Use product-specific first aid based on exposure route: move to fresh air after inhalation, wash skin, rinse eyes for at least 15 minutes, and seek medical advice after ingestion or persistent symptoms. |
|------------|--|



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|--------------------------|--|
| <b>Skin Contact</b>      | Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. Seek medical attention if symptoms persist. |
| <b>Eye Contact</b>       | Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.                  |
| <b>Ingestion</b>         | Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.   |
| <b>Note to Physician</b> | Treat symptomatically based on exposure route and product hazards.   |

## SECTION 5 FIREFIGHTING MEASURES

|  |   |
|--|---|
| <b>Suitable Extinguishing Media</b>          | Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA.                     |
| <b>Unsuitable Media</b>                      | Direct high-pressure water jet where it may spread the material.  |
| <b>Specific Hazards</b>                      | Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA.                     |
| <b>Fire &amp; Explosion Risk</b>             | Dust or fine particulate may form combustible or irritating atmospheres depending on product. Avoid dust clouds and ignition sources. Containers may rupture when heated. |
| <b>Protective Equipment for Firefighters</b> | Wear full protective clothing and self-contained breathing apparatus (SCBA).  |
| <b>Special Procedures</b>                    | Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.  |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

|                                  |  |
|----------------------------------|--|
| <b>Personal Precautions</b>      | Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers. |
| <b>Environmental Precautions</b> | Prevent entry into drains, sewers, soil and watercourses.  |
| <b>Containment Methods</b>       | Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers. |
| <b>Clean-up Methods</b>          | Collect material into labelled containers for disposal through an approved waste contractor.                                 |
| <b>Reference to Sections</b>     | See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.                                    |

## SECTION 7 HANDLING AND STORAGE

|                               |  |
|-------------------------------|--|
| <b>Handling Precautions</b>   | Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials. |
| <b>Hygiene</b>                | Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.       |
| <b>Storage Conditions</b>     | Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials. |
| <b>Storage Temperature</b>    | Store at ambient temperature unless supplier instructions specify otherwise.                                       |
| <b>Incompatible Materials</b> | Strong oxidizers and product-specific incompatible substances; see supplier SDS before use.                        |
| <b>Packaging</b>              | Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.       |
| <b>Segregation</b>            | Segregate from food, drink, animal feed and incompatible chemicals.  |

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

| Component       | OEL (8h TWA)   | STEL (15 min)                                  | Standard                      | Notes   |
|-----------------|--|--|-------------------------------|---|
| Sodium Silicate | Use verified local OEL if established; otherwise ALARA/good industrial hygiene | Use verified local STEL/ceiling if established | OSHA/NIOSH/ACGI H/EU/UK/India | CAS 1344-09-8; supplier/regional OEL confirmation required. |

|                        |  |
|------------------------|--|
| Engineering Controls   | Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids.                              |
| Respiratory Protection | If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies. |
| Hand Protection        | Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task.                |
| Eye/Face Protection    | Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk.   |
| Body Protection        | Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur.  |
| Hygiene Measures       | Provide eyewash and safety shower where appropriate. Wash after handling.  |

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

|                           |  |
|---------------------------|--|
| Appearance                | The appearance or features of this compound, including color,  |
| Odour                     | See PubChem experimental properties.   |
| Odour Threshold           | Not established in reviewed public source text   |
| pH                        | Not applicable unless supplied/used as an aqueous solution. For acids, alkalis, salts, surfactants and aqueous grades, verify pH from supplier COA/SDS before release. |
| Melting/Freezing Point    | PEER REVIEWED 1089 °C  |
| Boiling Point / Range     | PEER REVIEWED BOILING POINT: 100 °C -6H <sub>2</sub> O /NONAHYDRATE/   |
| Flash Point               | Not applicable or not available from PubChem experimental text.  |
| Auto-ignition Temperature | Not flammable (USCG, 1999) Decomposition Information on the decomposition of this compound, including the decomposition conditions and products.                       |
| Flammability Limits       | See PubChem experimental properties.   |
| Vapour Pressure           | See PubChem experimental properties.   |
| Vapour Density            | See PubChem experimental properties.   |
| Relative Density          | 1.1 to 1.7 at 68 °F (USCG, 1999)   |
| Solubility in Water       | PEER REVIEWED VERY SOL IN COLD & HOT WATER; SOLUBLE IN DILUTE SODIUM HYDROXIDE; INSOLUBLE IN ALCOHOL, ACIDS /NONAHYDRATE/  |
| Log Pow (Partition Coeff) | See PubChem experimental properties.   |
| Evaporation Rate          | See supplier SDS for grade-specific value  |
| Viscosity                 | See supplier SDS for grade-specific value  |
| VOC Content               | Assess per applicable regional VOC regulations   |
| Reactivity                | See Section 10 and source SDS for grade-specific reactivity  |

**SECTION 10 STABILITY AND REACTIVITY**

|  |   |
|--|---|
| <b>Chemical Stability</b>              | Stable under recommended storage and handling conditions.   |
| <b>Conditions to Avoid</b>             | Avoid heat, ignition sources, contamination and incompatible materials.   |
| <b>Incompatible Materials</b>          | Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl <sub>3</sub> ) under elevated temperature — not a concern in ambient blending or storage. |
| <b>Hazardous Decomposition</b>         | Carbon oxides and irritating or toxic fumes may be formed in fire.  |
| <b>Hazardous Reactions</b>             | No hazardous reactions under normal storage unless noted by product reactivity.   |
| <b>Possibility of Hazardous React.</b> | Will not occur under normal conditions when stored and handled correctly.   |

**SECTION 11 TOXICOLOGICAL INFORMATION**

|                                       |   |
|---------------------------------------|---|
| <b>Acute Oral Toxicity</b>            | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Acute Dermal Toxicity</b>          | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Acute Inhalation Toxicity</b>      | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Skin Irritation</b>                | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Eye Irritation</b>                 | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Sensitisation</b>                  | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Specific Target Organ (Single)</b> | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Specific Target Organ (Repeat)</b> | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Reproductive Toxicity</b>          | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Aspiration Hazard</b>              | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Carcinogenicity</b>                | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| <b>Mutagenicity</b>                   | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |

**SECTION 12 ECOLOGICAL INFORMATION**

|                                    |  |
|------------------------------------|--|
| <b>Aquatic Toxicity (Acute)</b>    | No aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity was not universally verified; avoid release. |
| <b>Aquatic Toxicity (Chronic)</b>  | No chronic aquatic classification identified in Section 2. Obtain supplier/ecotoxicity data if needed for registration or export.      |
| <b>Persistence / Degradability</b> | Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability.                             |
| <b>Bioaccumulation</b>             | Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data.                     |



|                                  |   |
|----------------------------------|---|
| <b>Mobility in Soil</b>          | Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater. |
| <b>Other Adverse Effects</b>     | Avoid uncontrolled release to the environment.  |
| <b>Environmental Regulations</b> | Manage releases and waste under applicable local environmental regulations.                             |

### SECTION 13 DISPOSAL CONSIDERATIONS

|                               |  |
|-------------------------------|--|
| <b>Waste from Product</b>     | Dispose of contents through an authorized waste contractor in accordance with local regulations. |
| <b>Contaminated Packaging</b> | Empty containers may retain residues; handle as hazardous until cleaned or disposed.             |
| <b>European Waste Code</b>    | Assign waste code according to actual process and local regulation.                              |
| <b>Indian Regulations</b>     | Follow local hazardous waste and pollution control requirements.                                 |

### SECTION 14 TRANSPORT INFORMATION

| Parameter                   | UN / ADR (Road)                     | IMDG (Sea)                           | IATA (Air)                           | Notes  |
|-----------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--|
| <b>UN Number</b>            | UN 1346                             | UN 1346                              | UN 1346                              | PubChem transport text / DOT ERG source      |
| <b>Proper Shipping Name</b> | SILICO                              | SILICO                               | SILICO                               |  |
| <b>Class</b>                | 4.1                                 | 4.1                                  | 4.1                                  | Transport class                              |
| <b>Packing Group</b>        | Verify                              | Verify                               | Verify                               |  |
| <b>Marine Pollutant</b>     | Verify                              | Verify                               | —                                    |  |
| <b>Tunnel Restriction</b>   | Verify                              | —                                    | —                                    | ADR  |
| <b>EmS (Sea)</b>            | —                                   | Verify                               | —                                    | IMDG   |
| <b>Special Provisions</b>   | Follow applicable ADR requirements. | Follow applicable IMDG requirements. | Follow applicable IATA requirements. | Verify current carrier rules before shipment |

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 1346, PG II, and product name.

### SECTION 15 REGULATORY INFORMATION

|                             |  |
|-----------------------------|--|
| <b>EU / REACH</b>           | Observe REACH and CLP requirements where applicable.   |
| <b>EU CLP Regulation</b>    | Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2.                      |
| <b>EU Directive</b>         | Observe applicable workplace chemical, VOC and environmental requirements.   |
| <b>OSHA (USA)</b>           | Prepared in OSHA HCS/HazCom aligned 16-section SDS format.   |
| <b>India</b>                | Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements.        |
| <b>China (GB Standards)</b> | Use applicable GB/T SDS and classification requirements where marketed.  |
| <b>Middle East / GCC</b>    | Observe applicable GHS-aligned local requirements.   |
| <b>TSCA (USA)</b>           | Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation. |
| <b>Australia (AICS)</b>     | Check inventory status before export or import.  |



|                                    |  |
|------------------------------------|--|
| <b>Special Notes</b>               | No product-specific special note beyond the classification in Section 2.   |
| <b>Canada WHMIS / HPR</b>          | Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. |
| <b>Regulatory Scope Limitation</b> | Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.                  |

## SECTION 16 OTHER INFORMATION

### Full Text of H-Statements:

- H314 - Causes severe skin burns and eye damage
- H335 - May cause respiratory irritation
- H290 - May be corrosive to metals
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation

H371 - See source GHS notification text

|                              |   |
|------------------------------|---|
| <b>Prepared By</b>           | Supreme Petro Chemicals - Technical Department  |
| <b>SDS Standard</b>          | UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR 16-section SDS format  |
| <b>Revision Date</b>         | 22 May 2026   |
| <b>Version</b>               | 1.0   |
| <b>Replaces Version</b>      | N/A - Initial Issue   |
| <b>Key Sources</b>           | SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 May 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed May 2026. |
| <b>Audit Correction Note</b> | Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release.   |

### DISCLAIMER

The information in this document is based on our present knowledge and is believed to be correct. It is provided in good faith. No warranty, express or implied, is made as to the accuracy or completeness. This SDS is prepared in accordance with UN GHS Rev.11 (2025). The user is responsible for compliance with all applicable laws and regulations. Supreme Petro Chemicals shall not be liable for any loss, injury, or damage resulting from reliance on this information.