



# CLAYMAN

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## SAFETY DATA SHEET

|      |                       |
|------|-----------------------|
| 5217 | SODIUM SILICATE 75°TW |
|------|-----------------------|

### 1. Identification of substance/preparation and of the company undertaking

|                |                       |
|----------------|-----------------------|
| Trade Name:    | Sodium Silicate 75°TW |
| Chemical Name: | Sodium silicate       |
| Synonyms:      | Waterglass            |

### 2. Composition /information on ingredients

| Component       | CAS       | EINECS    | % of composition |
|-----------------|-----------|-----------|------------------|
| Sodium silicate | 1344-09-8 | 229-912-9 | Approx 50        |

### 3. Hazards Identification

|            |   |
|------------|---|
| Inhalation | Excessive exposure may cause symptoms of chronic lung disease.                                |
| Ingestion  | The product is of low solubility in body fluids and it is likely to be of low acute toxicity. |
| Eyes       | Causes physical irritation and inflammation.  |
| Skin       | Causes physical irritation and inflammation.  |

### 4. First Aid Measures

|            |   |
|------------|---|
| Inhalation | Remove patient to fresh air, loosen tight clothing and seek medical attention.  |
| Ingestion  | Wash out mouth with water and give sips of water or milk. Do not induce vomiting, seek medical attention.   |
| Eyes       | Speed is essential. Irrigate eyes for not less than 20 minutes with clean water immediately otherwise permanent damage will result. Seek medical attention. |
| Skin       | Wash affected area with copious quantities of water until no soapy feelings remain. Obtain medical attention if irritation persists.                        |

### 5. Fire Fighting Hazards

|                               |   |
|-------------------------------|---|
| Extinguishing media           | Those suitable for surrounding fire conditions  |
| Special exposure hazard       | The product is non flammable. Contact with certain metals (aluminium, zinc and tin) liberates highly flammable hydrogen gas which may form an explosive mixture with air. |
| Personal protective equipment | May generate toxic fumes in a fire – self contained breathing apparatus and full body protective clothing.  |



| <b>6. Accidental Release Measure</b> |  |
|--------------------------------------|--|
| Leaks and Spills                     | Contain spillage. Scoop into a suitable container. Wipe up any excess. If any enters drain dilute as much as possible. |
| Personal protective equipment        | Wear goggles and respiratory equipment. Eye baths should be available.   |

| <b>7. Handling &amp; Storage</b> |   |
|----------------------------------|---|
| Handling                         | Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material. Wear suitable goggles, gloves and clothing when handling. |
| Storage                          | Store in a dry area. Do not store solutions above 50°C for prolonged periods. Protect solutions from freezing.  |

| <b>8. Exposure Control/Personal Protection</b> |   |
|--|---|
| Engineering controls                           | Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended.   |
| Personal Protective equipment                  | Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact. |

| <b>9. Physical &amp; Chemical Properties</b> |                           |
|--|---------------------------|
| Appearance and Odour                         | Viscous liquid, odourless |
| Flash Point (°C)                             | Not applicable            |
| Flammability                                 | Not applicable            |
| Explosive properties                         | Non-explosive             |
| Oxidising properties                         | Not applicable            |
| Specific gravity                             | 1-3                       |
| pH value                                     | 7>11                      |
| Melting point (°C)                           | 980°C                     |

| <b>10. Stability &amp; Reactivity</b> |  |
|---------------------------------------|--|
| Chemical stability                    | The material is stable under normal conditions.  |
| Conditions/ materials to avoid        | Avoid exposure to atmospheric draughts and low temperatures. Avoid contact with strong acids. Acid will cause the liquid to gel. Absorbs carbon dioxide from the air. Ignites and maintains combustion in fluorine. Contact with wood will cause discolouration. Solutions will react with new surfaces of aluminium, zinc, tin and their alloy will liberate hazardous decomposition fumes. |
| Hazardous decomposition products      | Contact with aluminium, brass, tin, zinc will produce highly flammable and explosive H <sub>2</sub> gases.   |
| Hazardous polymerization products     | None   |



|                                      |  |
|--------------------------------------|--|
| <b>11. Toxicological Information</b> |  |
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|                  |   |
|------------------|---|
| Acute toxicology | Liquid and mist cause severe irritation and corrosion to skin, eyes, respiratory and digestive tracts. There is little danger of cold solution causing acute damage to the skin. Hot solutions may cause chemical burns.  |
| Health effects   | Prolonged contact may cause dryness and reddening of the skin. Corrosive to eyes and may cause corneal damage. Inhalation may cause pulmonary oedema. Ingestion causes system dehydration and nausea. Ingestion of large amounts may result in severe abdominal pains, vomiting, diarrhoea, convulsions and collapse. |

|                                   |  |
|-----------------------------------|--|
| <b>12. Ecological Information</b> |  |
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|             |   |
|-------------|---|
| Ecotoxicity | Increase in pH10 or more is lethal to aquatic life.     |
| Persistence | No evidence of bio-accumulation or tainting of seafood. |

|                                    |  |
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| <b>13. Disposal Considerations</b> |  |
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| Dispose in accordance with current waste Disposal regulations (for UK – Control of Pollution {Special Waste} Regulations 1980). Landfill is the most appropriate method. |  |
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| <b>14. Transport Information</b> |  |  |
|----------------------------------|--|--|

|               |                |                |
|---------------|----------------|----------------|
| UN/SI No.     | Not classified |                |
| UN Class      | Not classified |                |
| Packing group | Not classified |                |
| Road          | UK             | Not classified |
|               | ADR            | Not classified |
| Sea           | IMO            | Not classified |
| Air           | ICAO           | Not classified |



| <b>15. Regulatory Information</b>   |                   |  |              |
|---|-------------------|--|--------------|
| EC Supply Labelling   |                   |  |              |
| Harmful   |                   |  |              |
| R Phrases   | R38               | Irritating to the skin   |              |
|   | R41               | Risk of serious damage to eyes.  |              |
| S Phrases   | S2                | Keep out of reach of children.   |              |
|   | S26               | In case of contact with eyes rinse immediately with plenty of water and seek medical advice. |              |
|   | S37               | Wear suitable gloves   |              |
|   | S39               | Wear eye and face protection.  |              |
| UK Occupational exposures limits (Refer to HSE Guidance note EH40)  | Mg/m <sup>3</sup> | 8 hr TWA   | % in product |
| In accordance with HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk. |                   |  |              |

| <b>16. Other Information</b> |   |
|------------------------------|---|
| References                   |   |
| COSHH ACOP                   | HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.             |
| CHIP 96                      | Chemicals (Hazard Information and Packaging for Supply) Regulations 1996                                      |
| CHIP SDS ACOPS               | HSC Approved Code of Practice for Safety data Sheets in accordance with regulation 6 of the CHIP regulations. |
| HSE EH40                     | HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSHH regulations.  |