

# CTM POTTERS SUPPLIES

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product information:**

Product Name : Sodium Silicate 75TW and 140TW  
 Chemical Name : Sodium Silicate  
 Synonyms : Waterglass  
 Company : CTM Potters Supplies  
 Unit 10A, Millpark Industrial Estate  
 White Cross Road  
 Woodbury Salterton  
 Nr. Exeter  
 EX5 1EL  
 Telephone : 01395-233-077  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	EC Number	% of composition
Sodium Silicate	1344-09-8	229-912-9	refer to summary

### 3. HAZARD 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

**General Recommendations:**

**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 advice.  
**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 areas with copious quantities of water until no soapy feelings remain. Obtain medical attention if irritation persists.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Those suitable for surrounding fire conditions.  
**Special exposure hazards:** 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.  
**Protective personal equipment:** May generate toxic fumes in a fire - self contained breathing apparatus and full body protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Leaks &amp; Spills:</b>	Contain spillage. Scoop into a suitable container. Wipe up any excess. If any enters drain, dilute as much as possible.
<b>Personal protective equipment:</b>	Wear goggles and respiratory protective equipment. Eye baths should be available.

**7. HANDLING AND STORAGE**

<b>Handling:</b>	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.
<b>Storage:</b>	Store in dry area. Do not store solutions above 50°C for prolonged periods. Protect solutions from freezing.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Engineering controls:</b>	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended.
<b>Personal protective equipment:</b>	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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	
Form:	refer to summary
Colour:	
Odour:	odourless
Flash point (°C):	N/A
Flammability:	N/A
Explosive properties:	N/A
Oxidising properties:	N/A
Specific gravity:	1-3
pH value:	7 > 11
Melting point (°C):	980°C

**10. STABILITY AND REACTIVITY**

<b>Chemical stability:</b>	The material is stable under normal conditions.
<b>Conditions/materials to avoid:</b>	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 discoloration. Solutions will react with new surfaces of aluminium, zinc, tin and their alloy will liberate hazardous decomposition fumes.
<b>Hazardous decomposition products:</b>	Contact with aluminium, brass, tin, zinc will produce highly flammable and explosive H <sub>2</sub> gas.
<b>Hazardous polymerization products:</b>	None

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicology:</b>	Liquid and mist cause severe irritation and corrosion to skin, eyes, respiratory and digestive tracts. There is little danger of clod solution causing acute damage to the skin. Hot solutions may cause chemical burns.
<b>Health effects:</b>	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 sever abdominal pains, vomiting, diarrhoea, convulsions and collapse.

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Increase in pH 10 or more is lethal to aquatic life.
<b>Persistence:</b>	No evidence of bio-accumulation or tainting of seafood.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with current waste disposal regulations (for UK – Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method.

**14. TRANSPORT INFORMATION**

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

**15. REGULATORY INFORMATION**

<b>EC Supply Labelling:</b>	Harmful		
<b>R-Phrases:</b>	R38	irritating to the skin.	
	R41	risk of serious damage to eyes.	
<b>S-Phrases:</b>	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.	
<b>UK Occupational exposures limits*:</b>	Mg/m <sup>3</sup>	8 hr TWA	% in product.

\*Refer to HSE Guidance note EH40

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.

**16. OTHER INFORMATION****Summary per product:**

Reference	Formula Na <sub>2</sub> O(SiO <sub>2</sub> ) x	Appearance	% In composition
Sodium Silicate 75TW	x = 3	Viscous liquid	Approx 50
Sodium Silicate 140TW	x = 2.05	Viscous liquid	Approx 60

**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 COSH regulations.

**Further information:**

Data sheet producing department: CTM Potters Supplies  
Telephone: 01395-233-077

**Disclaimer:**

The information contained in this safety data sheet has been prepared using the best available information, however in view of technical developments, this may alter. The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.