



## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW.

MSDS Preparation Date: 27 / 5 / 2003

### 2. COMPOSITION / INFORMATION ON INGREDIENTS:

Sodium Silicate in aqueous solution with additives

CAS # 1344-09-8

Dangerous components: None

### 3. HAZARD IDENTIFICATION:

Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

**CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.**

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

**EYES:** Irritation and some reddening of the eyes.

**SKIN:** May cause dryness and / or tissue reddening.

**INGESTION:** May cause gastro-intestinal upset.

### 4. FIRST AID MEASURES:

**EYES:** Flush with cool running water for 15 minutes.

**SKIN:** Wash with water for 15 minutes.

**INGESTION:** Give large glasses of water or milk. Do not induce vomiting.

### 5. FIRE FIGHTING MEASURES:

Water based product which will not burn. Non flammable.

### 6. ACCIDENTAL RELEASE MEASURES:

Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

### 7. HANDLING AND STORAGE:

Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT :

**RESPIRATORY PROTECTION:** Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available.

**PROTECTIVE GLOVES:** Rubber or Plastic.



**EYE PROTECTION:** Splash goggles or face shield.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

|   |                         |                                  |
|---|-------------------------|----------------------------------|
| <b>BOILING POINT:</b> 212 DEG F (100 DEG C) | <b>PH</b> 10.5 - 11     | <b>APPEARANCE</b> -- Clear Fluid |
| <b>WATER SOLUBILITY</b> 100%                | <b>COLOUR</b> -- None   | <b>WT % SOLIDS</b> 24            |
| <b>SPECIFIC GRAVITY</b> -- 1.21             | <b>VISCOSITY</b> -- Low |                                  |

**10. STABILITY AND REACTIVITY:**

Normally stable at temperatures above 5 degrees C.  
Product may cause a gelling effect to materials that contain acids or ammonia.  
Upon drying the crystals formed from this solution become sharp and abrasive.  
Hazardous polymerization will not occur.

**11. TOXICOLOGICAL INFORMATION:**

Product is an alkaline solution, with no known chronic effects.  
Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

**12. ECOLOGICAL INFORMATION:**

Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms / L

**13. DISPOSAL CONSIDERATIONS**

Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

**14. TRANSPORTATION INFORMATION:**

The product is not regulated as a hazardous material by the U.S. Department of Transportation.

**15. REGULATORY INFORMATION:**

Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

**16. OTHER INFORMATION:**

Keep out of reach of children.  
Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.