



Certificate No. : 6709QMS002

Shree Jay Ambe

# Associated Finechem Pvt. Ltd.



## Factory :

Plot No. 184 to 186, Nr. Claris, Village Chacharawadi, Vasna,  
Sarkhej Bawla Highway, Ta. Sanand, Dist. Ahmedabad-382 213.

Phone : 02717 - 251 524, 320 055, (M) 099740 13525

Fax : 02717 - 251 525 Website : www.jaydinesh.com

## Regd Office :

303/304, Murlidhar Complex, Opp. Fatehpura Post Office,  
Bhattha, Paldi, Ahmedabad - 380 007.

Phone : 079 - 2660 8664, 2660 8667, 6542 2470, 3252 2424

Fax : 91- 079 - 2660 4088 Email : info@jaydinesh.com

## MATERIAL SAFETY DATA SHEET

TRADE NAME: SODIUM ORTHO SILICATE

### 1: Chemical Product and Company Identification

Product name: SODIUM ORTHO SILICATE  
Producer Name: ASSOCIATED FINECHEM PVT. LTD  
Plant Location: Sarkhej Bavla Highway, Ahmedabad, Gujarat, India,

### 2: Composition and Information on Ingredients

Sodium silicate is the common name for a compound sodium silicate,  $\text{Na}_2\text{SiO}_3$ , also known as water glass or liquid glass. It is available in solid form and is used in cements, passive fire protection, refractories, textile and lumber processing, and art. Sodium carbonate and silicon dioxide react when molten to form sodium silicate and carbon dioxide.

Sodium Orthosilicate: CAS No. 6834-92-0, EC No. 229-912-9

### 3: Hazards Identification

EYES: May cause eye irritation.  
SKIN: May cause skin irritation.  
INHALATION: May cause irritation of the respiratory tract.  
INGESTION: May cause abdominal discomfort, nausea and diarrhea.

### 4: First Aid Measures

EYES: Flush with water for at least 15 minutes. If irritation persists consult physician.  
INGESTION: Drink 1 to 2 glasses of water. Consult physician.  
INHALED: Remove to fresh air. If symptoms persist or are severe seek prompt medical assistance.  
SKIN: Remove contaminated clothing. Thoroughly wash exposed area with soap and water.  
PHYSICIAN: Treatment based on judgment of attending physician.

### 5: Fire and Explosion Data

FLASH POINT: >200 deg F, 93.3 deg C.  
AUTO-IGNITION TEMPERATURE: N/D  
EXPLOSIVE LIMITS - UEL: N/D LEL: N/D  
EXTINGUISHING MEDIA: Alcohol foam, water fog,  $\text{CO}_2$  or dry chemical  
SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH/MSHA approved self-contained positive pressure breathing apparatus and protective clothing where this material is involved in a fire.



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## **6: Accidental Release Measures**

Personal protection:	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots, NIOSH-approved dust respirator where dust occurs.
Environmental Hazards:	Sinks and mixes with water. High pH of this material is harmful to aquatic life.
Small spill cleanup:	Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE).
Large spill cleanup:	Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE).

## **7: Handling and Storage**

Handling:	Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep container closed. Promptly clean up spills. Wash thoroughly after handling.
Storage:	Keep containers closed. Store in clean, tightly closed steel, fiber, or plastic containers. Separate from acids, reactive metals, and ammonium salts. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. This product can absorb water from the air. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking. Packaged inventory should be used on a first in, first out (FIFO) basis.

## **8: Exposure Controls/Personal Protection**

VENTILATION:	Local exhaust or dilution ventilation is necessary in poorly ventilated areas.
GLOVES:	Rubber gloves.
RESPIRATORY:	When mists or aerosols are anticipated, wear NIOSH/MSHA approved respirator equipped with organic vapor cartridges with high-efficiency particulate filters.
EYE:	Safety glasses. Wear splash goggles when mists or aerosols are anticipated.

## **9: Physical and Chemical Properties**

APPEARANCE AND ODOR: White to Off White Powder

WATER SOLUBILITY, % BY WT: All proportions

SPECIFIC GRAVITY: 1.04

WT/GAL: 8.7 lbs.

% VOLATILE BY WT: 95

pH: 12.5 - 13.5

pH @ USE: 11.5 - 12.5



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BOILING POINT: N/D

## **10: Stability and Reactivity Data**

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur.  
INCOMPATIBILITY: Strong Acids

## **11: Toxicological Information**

2-Butoxyethanol: Oral rat LD50 is 470 mg/kg; dermal rabbit LD50 is 220 mg/kg; rat LC50 is 700 ppm in 7 hrs.  
OSHA PEL and ACGIH TLV are 25 ppm, skin.

## **12: Ecological Information**

Ready to use solution is biodegradable. No other information is available.

## **13: Disposal Considerations**

### **Waste Disposal**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **14: Transport Information**

DOT UN Status: This material is a regulated hazardous material.  
UN PROPER SHIPPING NAME: Corrosive Solid, Basic, Inorganic, n.o.s. (Sodium orthosilicate)  
UN HAZARD CLASS/DIVISION 8  
UN IDENTIFICATION NUMBER: UN3262  
UN PACKING GROUP: PG II

## **15. Regulatory information**

THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE GOVERNMENT CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS

## **16. OTHER INFORMATION :**

THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARDS AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT. THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE



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