



Certificate No. : 6709QMS002

Shree Jay Ambe

# Associated Finechem Pvt. Ltd.



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

Factory :

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 META SILICATE ANHYDROUS

### 1: Chemical Product and Company Identification

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

### 2: Composition and Information on Ingredients

Chemical Name: Sodium Metasilicate Anhydrous  
Chemical Family: Soluble Sodium Silicate  
CAS No.: 6834-92-0

### 3: Hazards Identification

Emergency Overview: White, odorless, granular powder. Corrosive to eyes, skin, and digestive tract. Dust corrosive to respiratory tract. Due to high pH of product, release into surface water is harmful to aquatic life. Noncombustible. Reacts with acids and some inorganic.

Eye contact: Corrosive. Causes eye burns.  
Skin contact: Corrosive. Causes skin burns.  
Inhalation: Dust corrosive to respiratory tract.  
Ingestion: Corrosive. Causes burns to mouth, esophagus, and stomach.  
Chronic hazards: No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.  
Physical hazards: Can etch glass if not promptly removed.

### 4: First Aid Measures

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.



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Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

## **5: Fire and Explosion Data**

Flammable limits:	This material is noncombustible.
Extinguishing Media:	This material is compatible with all extinguishing media.
Hazards to fire-fighters:	See Section 3 for information on hazards when this material is present in the area of a fire.
Fire-fighting equipment:	The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.

## **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). In case of contact with water, prevent runoff from entering into storm sewers and ditches which lead to natural waterways. Neutralize contaminated area and flush with large quantities of water. Comply with applicable environmental regulations.

## **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



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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**

Engineering controls: Use only with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.  
Skin protection: Wear body-covering protective clothing and gloves.  
Eye protection: Wear chemical goggles.

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

Appearance: Granular powder.  
Color: White.  
Odor: Odorless or musty odor.  
Solubility in water: Soluble.

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

Stability: This material is stable under all conditions of use and storage.  
Conditions to avoid: None.  
Materials to avoid: Generates heat when mixed with acid. May react with ammonium salt solutions resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc. Carbon monoxide gas may be produced on contact with reducing sugars.

Hazardous decomposition products: Hydrogen.

## **11: Toxicological Information**

Acute Data: This material has not been tested for primary eye irritation potential. However, on the basis of its high degree of alkalinity, it is regarded as corrosive to the eyes. When this material was tested for skin corrosion/irritation potential according to OECD Guidelines Section 404, it produced dermal corrosion. The acute oral toxicity of this product has not been tested. When sodium silicates were tested on a 100% solids basis, their single dose acute oral LD50 in rats ranged from 1500 mg/kg to 3200 mg/kg. The acute oral lethality resulted from nonspecific causes.





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**Subchronic Data:**

In a study of rats fed sodium silicate in drinking water for three months, at 200, 600 and 1800 ppm, changes were reported in the blood chemistry of some animals, but no specific changes to the organs of the animals due to sodium silicate administration were observed in any of the dosage groups. Another study reported adverse effects to the kidneys of dogs fed sodium silicate in their diet at 2.4g/kg/day for 4 weeks, whereas rats fed the same dosage did not develop any treatment-related effects. Decreased numbers of births and survival to weaning was reported for rats fed sodium silicate in their drinking water at 600 and 1200 ppm.

**Special Studies:**

Sodium silicate was not mutagenic to the bacterium *E. coli* when tested in a mutagenicity bioassay. There are no known reports of carcinogenicity of sodium silicates. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation kidney stones and other siliceous urinary calculi in humans. Sodium silicate is not listed by IARC, NTP or OSHA as a carcinogen.

## **12: Ecological Information**

**Eco toxicity:**

The following data is reported for sodium silicates on a 100% solids basis: A 96 hour median tolerance for fish (*Gambusia affinis*) of 2320 ppm; a 96 hour median tolerance for water fleas (*Daphnia magna*) of 247 ppm; a 96 hour median tolerance for snail eggs (*Lymnea*) of 632 ppm; and a 96 hour median tolerance for Amphipoda of 160 ppm.

**Environmental Fate:**

This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. Diluted material yields dissolved silica in a form that is indistinguishable from natural dissolved silica. It does not contribute to BOD. This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges. Where abnormally low natural silica concentrations exist (less than 0.1 ppm), dissolved silica may be a limiting nutrient for diatoms and a few other aquatic algal species. However, the addition of excess dissolved silica over the limiting concentration will not stimulate the growth of diatom populations; their growth rate is independent of silica concentration once the limiting concentration is exceeded. Neither silica nor sodium will appreciably bioconcentrate up the food chain.

**Physical/Chemical:**

Sinks and dissolves in water.

## **13: Disposal Considerations**



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**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 metasilicate, Anhydrous)

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 CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY THE USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.