

## MATERIAL SAFETY DATA SHEET (MSDS)

### Hydrated Alumino Sodium Silicate Powder (Zeolite Powder)

**PRODUCT NAME** : Hydrated Alumino Sodium Silicate (Zeolite Powder)

**H.S.N CODE** : 28421000

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**CHEMICAL COMPOSITION** : Hydrated Alumino Sodium Silicate Powder (Zeolite Powder)

**MOLECULAR FORMULA** :  $x(\text{Al}_2\text{O}_3) * y(\text{Na}_2\text{O}) * z(\text{SiO}_2) * w(\text{H}_2\text{O})$

## Chemical Product

Chemical product name: Hydrated Alumino Sodium Silicate (Zeolite-4A Type Powder)

Chemical Formula:  $x(\text{Al}_2\text{O}_3) * y(\text{Na}_2\text{O}) * z(\text{SiO}_2) * w(\text{H}_2\text{O})$

Trade name:

## Composition and Information on Ingredients

Composition	% by Weight
Name CAS # Zeolite 1318-02-1 or 68989-22-0	100
Toxicological Data on Ingredients: Not applicable.	

## Hazard Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of Ingestion, of inhalation.

**Potential Chronic Health Effects:** Hazardous in case of skin contact (corrosive). Slightly hazardous in case of skin contact (irritant).

**Carcinogenic Effect:** (Not classifiable for human.) by IARC

**Mutagenic Effects:** Not available.

**Teratogenic Effects:** Not available.

**Developmental Toxicity:** Not available.

## First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantity of this material is swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

**General Recommendation:** Avoid breathing dust or contact with skin. Avoid material contact with water.

**Medical Appendix:** In case of skin burns use procedure for caustic burns.

## Fire and Explosion Data

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:** Risks of explosion of the product in presence of mechanical impact: Not available.

**Risks of explosion of the product in Presence of static discharge:** Not available. .

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

**Explosion Limits: Upper** No data available, **Lower** No data available

**Sensitivity to Mechanical Impact:** No information available

**Sensitivity to Static Discharge:** No information available

## Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** 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.

## Handling and Storage

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed and dry. Unsuitable containers: Aluminum

**Possibility of hazardous reactions/Reactivity/ Chemical stability/ Conditions to avoid/ Incompatible materials:** When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air.

**Hazardous decomposition product(s):** not available

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Avoid generation of dust. Emergency shower and eye wash facilities should be readily available. Wear suitable personal protective equipment

**Other Precautions:** Use good work hygiene practices. Wash thoroughly after use and before eating, drinking or smoking. Vacuum up any dust. Launder clothing before reuse.

## **Exposure Controls/Personal Protection**

### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminant below the exposure limit.

**Personal Protection:** Safety glasses, Dust respirator, Be sure to use an approved/certified Gloves.

**Personal Protection in Case of a Large Spill:** Splash goggles, full suit, Dust respirator, Boots, Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

**Exposure Limits:** Not available.

## **Personal Protection**

**Respiratory protection:** Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53. Dust mask: FFP2 (EN 149).

**Eye/face protection:** Chemical goggles (EN 166).

**Skin protection:** Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3, level 6 breakthrough time (>480min). Wear suitable overalls. For example EN ISO 13982 (dust), EN 14605 (liquid splashes).

## **Stability and Reactivity Data**

**Stability:** The product is stable under normal conditions.

**Instability Temperature:** Not available.

**Conditions to Avoid:** Not any.

**Conditions of Instability:** Incompatible materials

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

**Reactive Hazard:** None known, based on information available

**Hazardous Decomposition Products:** None, under normal use conditions

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## Physical and Chemical Properties

**Physical state and appearance:** Solid. (Powdered solid)

**Odor:** Odorless.

**Taste:** Not available.

**Molecular Weight:** Not available.

**Color:** White.

**Physical State:** Powder, Granules, pallet form.

**PH (5% soln. water):** 11-12 %

**Boiling Point:** Not available..

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** >1(Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Autoignition Temperature:** None

**Odor Threshold:** Not available.

**Water/Oil Dist. Co. eff.:** Not available.

**Ionicity (In Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Insoluble in cold water, hot water.

**Other Solvents:** Not available.

## Ecological information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

## **Environmental Exposure Controls:-**

The primary hazard of sodium silicate is the alkalinity. Avoid generation of dust. Avoid release to the environment. Material is Alkaline with 11-12 P.H

**Persistence and Degradability:** No information available

**Bioaccumulation/ Accumulation:** No information available.

**Mobility:** No information available

## **Toxicological Information**

Routes of Entry: Inhalation, Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Nuisance dust. Acute Potential Health Effects: Skin: May cause dehydration or irritation to skin. Eyes: May cause abrasion or mechanical irritation to the eyes. Inhalation: Dust may irritate respiratory tract. Ingestion: May cause gastrointestinal tract irritation. No adverse effects known.

## **Disposal Considerations**

### **Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Discharge of this product to sewage treatment works is dependent on local regulations with regard to pH controls. Dispose of this material and its container to hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation.

## **Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**TDG:** Not regulated

**IATA:** Not regulated

**IMDG/IMO:** Not regulated

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

**UN number:** Not applicable

**Proper Shipping Name:** Not applicable.

**Transport hazard class (es):** Not applicable.

**Packing group:** Not applicable.

**Environmental hazards:** Not classified as a Marine Pollutant.

**Special precautions for user:** No special packaging requirements.

**Unsuitable containers:** Aluminum

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

## Other Regulatory Information

Federal and State Regulations: New Jersey: Zeolite (for CAS no. 1318-02-1)

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves, Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent Safety glasses.

## **U.S. Federal Regulations**

**SARA 313:** Not applicable

**SARA 311/312 Hazard Categories:** As above mention

**CWA (Clean Water Act):** Not applicable

**Clean Air Act:** Not applicable

**OSHA** (Occupational Safety and Health Administration): Not applicable

**TSCA 12(b):** Notices of Export Not applicable

**CERCLA:** Not applicable

**Product Use:** Detergent, Cleaning, washes boosters Compounds, Surfactant carrier. Humidity absorber, Oil removing and degreasing purpose, P.V.C fire retardant and heat retardant compound. Preservative, catalyst, West water treatments, Gas Adsorption and separation (3A,4A,5A), Automotive emission control, Solvent drying, purification, Oil purification, Pain Industries, cattle and shrimp food, paper industries.



# SHREENATH MARKETING

(Mfg. Sodium Silicate, Zeolite Products)

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**Prepared by** : Shreenath Marketing\_Mehsana, North Gujarat, INDIA.

**Addition Date** : March 2003;

**Revision Date** : Nil. (R0)

**Other Information** :

The Information on This Safety Data Sheet Is Believed to Be Accurate and It Is the Best Information Available. No Liability Resulting from the Use or Handling of the Product to Which This Safety Data Sheet Relates. Users and Handlers of This Product Should Make Their Own Investigations to Determine the Suitability of The Information Provided Here in for Their Own Purposes.