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Since 1985

TECHNO PHARMCHEM
An ISO 9001 : 2008 Certified Company
Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
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SODIUM METASILICATE

1. Product Identification
Synonyms: Disodium Metasilicate, 9-Hydrate; Water Glass
CAS No.: 6834-92-0 (Anhydrous) 13517-24-3 (Nonahydrate)
Molecular Weight: 284.2
Chemical Formula: $Na_2SiO_3.9H_2O$
Product Code: 33218

2.Composition/Information on Ingredients

Ingredient	CAS No	Percent
Sodium Metasilicate	13517-24-3	90 - 100%

3.Hazards Identification
Potential Health Effects

Inhalation: Severe irritant. Effects from inhalation of dust or mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Severe pneumonitis may occur.
Ingestion: Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea.
Skin Contact: Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.
Eye Contact: Corrosive. Can cause blurred vision, redness, pain, severe tissue burns and eye damage.
Chronic Exposure: Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.
Aggravation of Pre-existing Conditions: Persons with pre-existing skin, eye or respiratory problems may be more susceptible to the effects of this substance.

4. First Aid Measures
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin 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.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures
Fire: Not considered to be a fire hazard.
Explosion: Not considered to be an explosion hazard.
Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures
Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

7. Handling and Storage
Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Always add the caustic to water while stirring; never the reverse.

8. Exposure Controls/Personal Protection
Airborne Exposure Limits: None established.
Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Respirators (NIOSH Approved): For conditions of use where exposure to the substance is apparent and engineering controls are not feasble, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical/Chemical Properties
Appearance: White crystalline powder
Odor: Odorless.
Solubility: Appreciable (> 10%)
Specific Gravity: No information found.
pH: No information found.
% Volatiles by volume @ 21C (70F): 0
Boiling Point: No information found.
Melting Point: No information found.
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): No information found.
Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity Data
Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: Forms sodium ions and silicic acid when heated to decomposition.
Hazardous Polymerization: Will not occur.
Incompatibilities: Fluorine.
Conditions to Avoid: No information found.

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11. Toxicological Information
For anhydrous material: Oral rat LD50: 1153 mg/kg; standard Draize, skin, human, 250 mg/24-hour, severe. Investigated as a reproductive effector.

--------\Cancer Lists\----------

Ingredient	---NTP Carcinogen--- Known	Anticipated	IARC Category
Sodium Metasilicate (6834-92-0)	No	No	None

12. Ecological Information
Environmental Fate: No information found.
Environmental Toxicity: No information found.

13. Disposal Considerations
Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information
Land

Proper Shipping Name: SODIUM METASILICATE
Hazard Class: 8
UN/NA: UN3253
Packing Group: II

International (Water, I.M.O.)

Proper Shipping Name: SODIUM METASILICATE
Hazard Class: 8
UN/NA: UN3253
Packing Group: II

15. Regulatory Information
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

16. Other Information
Product Use:
Laboratory Reagent.