Serving Scientific Community
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)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

SODIUM FLUORIDE

1. Product Identification
Synonyms: Floridine; sodium monofluoride; disodium difluoride; natrium fluoride;
CAS No.: 7681-49-4
Molecular Weight: 41.99
Chemical Formula: NaF
Product Codes: 39099 , A-39099

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Sodium Fluoride	7681-49-4	95 - 100%

3. Hazards Identification
Potential Health Effects

If inhaled or swallowed, this compound can cause fluoride poisoning. Early symptoms include nausea, vomiting, diarrhea, and weakness. Later effects include central nervous system effects, cardiovascular effects.
Inhalation: Causes severe irritation to the respiratory tract, symptoms may include coughing, sore throat, and labored breathing. May be absorbed through inhalation of dust; symptoms may parallel those from ingestion exposure.
Irritation effects may not appear immediately.
Ingestion: Toxic! May cause salivation, nausea, vomiting, diarrhea, and abdominal pain. Symptoms of weakness, tremors, shallow respiration, cardopedal spasm, convulsions, and coma may follow. May cause brain and kidney damage.
Skin Contact: Causes irritation, with redness and pain. Solutions are corrosive. Effects may not appear immediately.
Eye Contact: Eye irritant! May cause irritation and serious eye damage. Effects may not immediately appear.
Chronic Exposure: Chronic exposure may cause mottling of teeth and bone damage (osteosclerosis) and fluorosis. Symptoms of fluorisis include brittle bones,weight loss, anemia, calcified ligaments, general ill health and joint stiffness.
Aggravation of Pre-existing Conditions:
Populations that appear to be at increased risk from the effects of fluoride are individuals that suffer from diabetes insipidus or some forms of renal impairment.

4. First Aid Measures
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Ingestion:Administer milk, chewable calcium carbonate tablets or milk of magnesia. Never give anything by mouth to an unconscious person. Call a physician immediately.
Skin Contact: Wipe off any excess material from skin and then immediately flush skin with large amounts of soapy water.
Remove contaminated clothing and shoes. Wash clothing before re-use. Apply bandages soaked in magnesium sulfate. Call a physician immediately.

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Eye Contact : Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician 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 face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures
Ventilate area of leak or 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.Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.Separate from acids and oxidizing materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection
Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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): If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest.
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 full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties
Appearance: White crystals.
Odor: Odorless.
Solubility: 4 g/100 ml water @ 15C (59F)
Specific Gravity: 2.78
pH: No information found.
% Volatiles by volume @ 21C (70F): 0
Boiling Point: 1700C (3092F)
Melting Point: 993C (1819F)
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): 1 @ 1077C (1971F)
Evaporation Rate (BuAc=1): No information found.

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10. Stability and Reactivity
Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: Burning may produce hydrogen fluoride vapors.
Hazardous Polymerization: Will not occur.
Incompatibilities: Reacts with acids to form hydrogen fluoride.
Conditions to Avoid: No information found.

11. Toxicological Information
Oral rat LD50: 52 mg/kg; Eye Rabbit (standard Draize) 20mg/24-hr, moderate;
Investigated as a tumorigen, mutagen, reproductive effector

12. Ecological Information
Environmental Fate: No information found.
Environmental Toxicity: This material is not expected to be toxic to aquatic life.

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 FLUORIDE
Hazard Class: 6.1
UN/NA: UN1690
Packing Group: III
Information reported for product/size: 250LB

Water

Proper Shipping Name: SODIUM FLUORIDE
Hazard Class: 6.1
UN/NA: UN1690
Packing Group: III
Information reported for product/size: 250LB

AIR

Proper Shipping Name: SODIUM FLUORIDE
Hazard Class: 6.1
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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