

Material Safety Data Sheet

NFPA



HMIS

Health Hazard	(2)
Fire Hazard	0
Reactivity	(0)

Personal Protective Equipment







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See Section 15.

Section 1. Chemical Product and Company Identification

Tabun Test Catalog Common Name/ RE2144 Number(s). **Trade Name**

> CAS# 7681-49-4

HazTech Systems, Inc. Manufacturer

RTECS WB0350010

P.O. Box 929

Mariposa, CA 95338

TSCA TSCA 8(b) inventory: Sodium

fluoride

Commercial Name(s) Not available.

CI#

Not available.

Sodium Fluoride Powder, Reagent ACS; Sodium Fluoride Powder, Synonym

USP, EP, BP

Sodium Fluoride **Chemical Name**

IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300

Chemical Family Not available.

CALL (310) 516-8000

Chemical Formula NaF

Supplier

SPECTRUM LABORATORY PRODUCTS INC.

14422 S. SAN PEDRO STREET

GARDENA, CA 90248

Section 2. Composition and Information on Ingredients

		Exposure Limits			
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Sodium fluoride	7681-49-4	2.5			100

Toxicological Data Sodium fluoride

on Ingredients Acute: 52 mg/kg [Rat]. 57 mg/kg [Mouse]. ORAL (LD50):

Section 3. Hazards Identification

Potential Acute Health Effects

Hazardous in case of skin contact (irritant), of eye contact (irritant, corrosive), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive). Severe over-exposure can result in death.

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Classified 3 (Equivocal evidence.) by NTP.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

The substance may be toxic to kidneys, lungs, the nervous system, heart, gastrointestinal tract, cardiovascular system, bones, teeth.

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human



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Section 4. 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. Cold water may be used. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before

reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate

medical attention.

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

medical attention.

Serious Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or

waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-m

resuscitation. Seek medical attention.

Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical

attention immediately.

Serious Ingestion Not available.

Section 5. 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.

Slightly explosive in presence of heat.

Fire Fighting Media and Instructions

Not applicable.

Special Remarks on

Fire Hazards

Not available.

Special Remarks on Explosion

Hazards

Containers may explode when heated

Section 6. Accidental Release Measures

Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill Poisonous solid.

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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Section 7. Handling and Storage

Precautions Keep locked up.. Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product. In

case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as

oxidizing agents, acids, moisture.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23∞C (73.4∞F).

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels

recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to

airborne contaminants below the exposure limit.

Personal Protection Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

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 TWA: 2.5 (mg/m³) from NIOSH

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance Solid. (Crystals solid.) Odor Odorless.

Taste Salty

Molecular Weight 41.99 g/mole

Not available.

Color White.

pH (1% soln/water) Not available.

Boiling Point 1700∞C (3092∞F)

Melting Point 993∞C (1819.4∞F)

Critical Temperature Not available.

Specific Gravity 2.78 (Water = 1)

Vapor Pressure Not applicable.

Vapor Density Not available.

Volatility Not available.

Odor Threshold Not available.

Water/Oil Dist. Coeff. Not available.

Ionicity (in Water) Not available.

Dispersion Properties See solubility in water.

Solubility Partially soluble in cold water.

Section 10. Stability and Reactivity Data

Stability The product is stable.

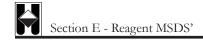
Instability Temperature Not available.

Conditions of Instability Incompatible materials, dust generation, excess heat, moisture

Incompatibility with various

substances

Reactive with oxidizing agents, acids, moisture.



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Corrosivity Corrosive in presence of aluminum.

Non-corrosive in presence of glass.

Special Remarks on

Reactivity

Possibly moisture sensitive.
Contact with metals may evolve flammable hydrogen gas.

Sodium reacts with acids to form hydrogen fluoride.

Alkali fluorides (except lithium salt) absorb Sodium Fluoride to form acid fluorides.

Special Remarks on

Corrosivity

Not available.

Polymerization Will not occur.

Section 11. Toxicological Information

Routes of Entry Inhalation. Ingestion.

Toxicity to Animals Acute oral toxicity (LD50): 52 mg/kg [Rat].

MUTAGENIC EFFECTS Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

May cause damage to the following organs: kidneys, lungs, the nervous system, heart, gastrointestinal tract,

cardiovascular system, bones, teeth.

Other Toxic Effects on

Humans

Hazardous in case of skin contact (irritant), of eye contact (corrosive), of ingestion, of inhalation.

Slightly hazardous in case of skin contact (corrosive).

Special Remarks on Toxicity to Animals

Not available.

Special Remarks on Chronic Effects on Humans May cause adverse reproductive effects (fertility, fetoxicity), and birth defects based on animal data. May cause

cancer based on animal data.

May cause genetic (mutagenic) and tumorigenic effects.

Special Remarks on other Toxic Effects on Humans

Acute Potential Health Effects:

Skin: Causes skin irritation and possible burns, especially if skin is wet or moist.

Eyes: Causes eye irritation and burns. May cause chemical conjunctivitis and corneal damage.

Ingestion: Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation and burns. May cause severe and permanent damage to the digestive. Ingestion of large amounts may cause salivation, nausea vomiting and abdominal pain. May affect behavior, cardiovascular system, urinary system, liver brain, metabolism, teeth,

bones, and blood.

Inhalation: Causes irritation and chemical burns of the respiratory tract with coughing, breathing difficulty and

possibly nasal septum perforation and coma. May affect bones.

Chronic Potential Heath Effects:

Chronic inhalation and ingestion may cause fluorosis with skeletal (bones and teeth) abnormalities. Chronic

inhalation may cause lung damage.

Section 12. 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 products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation

Not available.

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Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Section 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.

Identification : Sodium fluoride UNNA: 1690 PG: III

Special Provisions for

Transport

Not available.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State New York release reporting list: Sodium fluoride

Regulations Rhode Island RTK hazardous substances: Sodium fluoride

Pennsylvania RTK: Sodium fluoride Massachusetts RTK: Sodium fluoride

California Director's List of Hazardous Substances: Sodium fluoride

TSCA 8(b) inventory: Sodium fluoride TSCA 8(a) PAIR: Sodium fluoride

CERCLA: Hazardous substances.: Sodium fluoride: 1000 lbs. (453.6 kg)

California Proposition 65 Warnings

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

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

Other Classifications WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC) R25- Toxic if swallowed.

R32- Contact with acids liberates very

toxic gas.

R36/38- Irritating to eyes and skin.

S22- Do not breathe dust.

S36- Wear suitable protective clothing. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible).

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	(E)

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

Flammability

Health 2 0 Reactivity

WHMIS (Canada) (Pictograms)



Specific hazard



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DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequat Splash goggles.



Section 16. Other Information

MSDS Code \$4030

References Not available.

Other Special Not available.

Considerations

Validated by R. Turkington Verified by R. Turkington

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.