

Section 1. Product and Company Identification

Product Name	Sodium Fluoride		
CAS Number	7681-49-4		

Parchem - fine & spe	ecialty chemicals	EMERC
415 Huguenot Stree	t	CHEM
New Rochelle, NY 1		Toll Fre
2 (914) 654-6800	7 (914) 654-6899	All othe
parchem.com	🞽 info@parchem.com	Collect

EMERGENCY RESPONSE NUMBER CHEMTEL Foll Free US & Canada: 1 (800) 255-3924 All other Origins: 1 (813) 248-0585 Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 3), H402

GHS Label Elements Pictograms:



Signal word: DANGER

Hazard and precautionary statements Hazard statements

H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H402 Harmful to aquatic life.

Precautionary Statements

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear eye protection/face protection.
P280 Wear protective gloves.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.





Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: Contact with acids liberates very toxic gas.

Common Name Formula CAS Number	Sodium Fluoride NaF 7681-49-4	
COMPONEN	T CAS NUMBER	CONCENTRATION
Sodium Fluori	de 7681-49-4	≤ 100%

Section 4. First Aid Measures

Description of first-aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling and/or in section 11. Indication of any immediate medical attention and special treatment needed: No

Section 5. Firefighting Measures

data available

Extinguishing media Suitable extinguishing media: Dry powder



Special hazards arising from the substance or mixture: Hydrogen fluoride, Sodium oxides **Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. **Further information:** No data available

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

Reference to other sections For disposal see section 13.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Moisture sensitive. Keep in a dry place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

Section 8. Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis	
			Parameters		
Sodium Fluoride	7681-49-4	TWA	2.500000	USA. Occupational Exposure	
			mg/m ³	Limits (OSHA) - Table Z-1	
				Limits for Air Contaminants	
		TWA	2.500000	USA. Occupational Exposure	
			mg/m ³	Limits (OSHA) - Table Z-2	
		TWA	2.500000	USA. NIOSH Recommended	
			mg/m ³	Exposure Limits	



	TWA	2.500000 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
Remarks	CAS Number varies with compound			
	TWA	2.500000	USA. Occupational Exposure	
	707 00 10	mg/m ³	Limits (OSHA) - Table Z-2	
	Z37.28-19			
	TWA	2.500000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)	
	Bono dama			
	Bone damage Fluorosis Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen varies			
	TWA	2.500000	USA. ACGIH Threshold Limit	
		mg/m ³	Values (TLV)	
	Bone damage Fluorosis Substances for which there is a Biological Exposure Index or Indices (see BEI® section) No			
	classifiable as a human carcinogen varies			
	TWA	2.5 mg/m ³	USA. NIOSH Recommended	
			Exposure Limits	
	TWA	2.5 mg/m ³	USA. Occupational Exposure	
			Limits (OSHA) - Table Z-1	
			Limits for Air Contaminants	
	CAS numbe	er varies with compo	bund	
	TWA	2.5 mg/m ³	USA. ACGIH Threshold Limit	
			Values (TLV)	
	Bone dama	ige Fluorosis Substar	nces for which there is a	
	Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Varies			
	TWA	2.5 mg/m ³	USA. OSHA - TABLE Z-1	
		U .		
			Limits for Air Contaminants -	

Biological Occupational Exposure Limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Sodium Fluoride	7681-49-4	Fluoride	2 mg/L	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Prior to shift (16 hours after exposure ceases)			



Fluoride	3 mg/L	Urine	ACGIH - Biological		
			Exposure Indices		
			(BEI)		
End of shift (End of shift (As soon as possible after exposure ceases)				

Exposure controls

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties Appearance: Powder Color: White Odor: No data available Odor Threshold: No data available pH: No data available Melting point/freezing point: 993°C (1,819°F) - lit. Initial boiling point and boiling range: No data available Flash point: No data available Evaporation rate: No data available Flammability (solid, gas): No data available Upper/lower flammability or explosive limits: No data available Vapor pressure: 1.9 hPa (1.4 mmHg) Vapor density: No data available Relative density: 2.780 g/cm³



Water solubility: No data available Partition coefficient (n-octanol/water): No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Explosive properties: No data available Oxidizing properties: No data available

Other safety information: No data available

Section 10. Stability and Reactivity

Reactivity: No data available Chemical stability: Stable under recommended storage conditions. Possibility of hazardous reactions: Contact with acids liberates very toxic gas. Conditions to avoid: Exposure to moisture Incompatible materials: Strong acids

Hazardous decomposition products

Other decomposition products: Gaseous hydrogen fluoride (HF). In the event of fire: see section 5

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity LD50 Oral - Rat - female - 148.5 mg/kg Inhalation: No data available Dermal: No data available LD50 Intravenous - Rat - 26 mg/kg Remarks: Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Skin corrosion/irritation: Irritating to skin.

Serious eye damage/eye irritation

Eyes - Rabbit Result: Eye irritation - 24 h Remarks: Moderate eye irritation

Respiratory or skin sensitization: No data available **Germ cell mutagenicity:** No data available



Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium fluoride)

NTP: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available Specific target organ toxicity - single exposure: No data available Specific target organ toxicity - repeated exposure: No data available Aspiration hazard: No data available

Additional Information

RTECS: WB0350000 Prolonged or repeated exposure can cause: Damage to the lungs. Liver - Irregularities - Based on Human Evidence

Section 12. Ecological Information

Toxicity

Toxicity to fish mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 500 mg/l - 96h LC50 - Oncorhynchus mykiss (rainbow trout) - 200 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 98 mg/l - 48 h

Persistence and degradability: No data available

Bioaccumulative potential

Bioaccumulation Salmo trutta - 10 d - 5 mg/L Bioconcentration factor (BCF): 2.3

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.



Section 14. Transport Information

DOT (US)

UN number: 1690 Class: 6.1 Packing group: III Proper shipping name: Sodium fluoride, solid Reportable Quantity (RQ): 1000 lbs Poison Inhalation Hazard: No

IMDG UN number: 1690 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: Sodium Fluoride, Solid

IATA UN number: 1690 Class: 6.1 Packing group: III Proper shipping name: Sodium fluoride, solid

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Sodium fluoride (CAS-No. 7681-49-4) Revision Date: 2007-03-01 **Pennsylvania Right to Know Components** Sodium fluoride (CAS-No. 7681-49-4) Revision Date: 2007-03-01 **New Jersey Right to Know Components** Sodium fluoride (CAS-No. 7681-49-4) Revision Date: 2007-03-01

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



HMIS Rating Health: 2* Flammability: 0 Reactivity: 0

NFPA Rating Health: 2 Flammability: 0 Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 10/15/2015

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