

## Safety Data Sheet SODIUM BIFLUORIDE PELLETS

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : SODIUM BIFLUORIDE PELLETS  
**Formula** :  $\text{NaHF}_2$   
**CAS No** : 1333-83-1  
**Product Use** : Pre treatment of metal surfaces of electroplating, As a laundry sour for iron stains, Etching and frosting glass

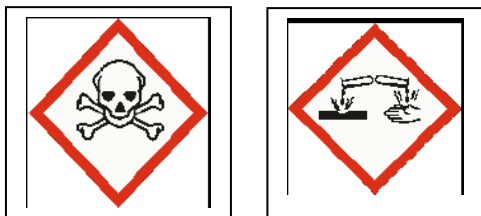
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### SECTION 2 : HAZARDS IDENTIFICATION

#### Label elements

Labelling according Regulation (EC) No 1272/2008

#### Pictogram



Signal word      Danger



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014

## Hazard statement(s)

H301 Toxic if swallowed  
 H314 Causes severe skin burns and eye damage.

## Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Supplemental Hazard Statements none

## Emergency Overview :

**Color** Grey  
**Form** Pellets  
**Odor** Odorless  
**Flash Point, °C** Not applicable

**Most important Hazards :** Causes severe eye irritation. Causes severe skin irritation. Causes severe respiratory irritation. May cause burns. Harmful if swallowed. May cause pain, nausea, vomiting and diarrhea. Overexposure may cause kidney disorders

## Carcinogenicity :

Ingredient	Weight in Product (%)	NTP (Y/N)	IARC (See Notes)	OSHA (Y/N)	ACGIH (see Notes)
Sodium Bifluoride 1333-83-1	100	N	N	N	A4

### Notes :

IARC : Y1 = Carcinogenic to humans; Y2A = Probably carcinogenic to humans ; Y2B = Possibly Carcinogenic to humans ; N3 = Not classifiable as to its Carcinogenicity ; N = Not studied or probably not Carcinogenic

ACGIH : A1 = Confirmed human Carcinogen; A2 = Suspected human Carcinogen ; A3 = Confirmed animal Carcinogen ; A4 = Not classifiable as a human Carcinogen ; A5 = Not suspected as a human Carcinogen ; N = Not studied

**Chronic Health Hazards :** Exposure to FLUORIDES over years may produce mottling of tooth enamel, embrittlement and calcification of bones, and increased calcification of ligaments and vertebrae resulting in spinal stiffness (fluorosis). Refer to Potential Health Effects

**Aggravated Medical Conditions :** Pulmonary disorders. Dermal ailments



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## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENT

Ingredient	Weight in Product (%)	Notes
Sodium Bifluoride	100	None

**Other Information :** The Percentage by weight values reported for this product represent approximate formulation values

## SECTION 4 : FIRST AID MEASURES

**Inhalation :** Move person to fresh air. Aid in breathing if necessary, and get immediate medical attention

**Ingestion:** If person is conscious and able to swallow, give milk. If vomiting occurs, keep head lower than hips to prevent aspiration. Get immediate medical attention

**Skin contact:** Flush area with water while removing contaminated clothing and shoes. Wash with soap and water. Clean contaminated clothing and shoes before reuse. Get medical attention if irritation persists.

**Eye contact:** Immediately flush eyes with plenty of water for at least 30 minutes. Hold eyelids open during this flushing with water. Call a physician immediately

## SECTION 5 : FIRE-FIGHTING MEASURES

Flash Point, °C	Not Applicable
Auto ignition Temperature	Not Applicable
Lower Explosive Limit, %	Not Applicable
Upper Explosive Limit, %	Not Applicable

**Extinguishing media:** Water mist. Carbon dioxide. Dry chemical. Foam.

**Fire fighting procedure** Positive pressure, self-contained breathing apparatus. Wear full protective clothing

**Unusual Fire and Explosion Hazards** Not a fire or explosion hazard. Toxic vapors are emitted in a fire condition

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Spill Procedure:** Contain spillage. Scoop up or vacuum into container for reclamation or disposal. Avoid dusting.



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## SECTION 7 : HANDLING AND STORAGE

Wash thoroughly after handling.  
 Keep away from food and feed products.  
 Keep container closed  
 Store in a cool, dry location away from incompatible materials  
 Avoid generating of breathing dust  
 Do not get in eyes, on skin, or on clothing  
 Use only with adequate ventilation  
 Provide a safety shower and eye wash close to where this materials being used

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	Weight in Product (%)	OSHA PEL	ACGIH TLV
Sodium Bifluoride 1333-83-1	100	2.5 mg/m3 (as F)	2.5 mg/m3 (as F)

Unless otherwise noted, all values are reported as 8-Hour Time-Weighted Averages (TW As) and total dust (particulates only). All ACGIH TLVs refer to the 2000 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January, 1989

**Personal Protective Equipment :** Wear safety glasses or goggles to protect against exposure, rubber or neoprene gloves. Wear clean body-covering clothing

**Respiratory Protection :** Use approved respiratory protection of exposure limits are exceeded, or over exposure is likely. If respiratory protection is used, follow all requirements for respiratory programs set forth in OSHA regulation (29 CFR 1910, 134)

**Ventilation :** General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Form :** Pellets  
**Color :** White  
**Odor :** Odorless  
**Decomposition Temp, oC :** 80  
**Bulk Density :** 1.3 g/cc  
**Solubility (in water) :** Soluble

## SECTION 10 : STABILITY AND REACTIVITY

**Stability Data :** Stable  
**Conditions / Hazards to Avoid :** Heat . Moisture  
**Incompatibility (Material to Avoid) :** Alkalies. Silica. Strong acids  
**Hazardous Decomposition Products:** Hydrogen fluoride  
**Polymerization :** None anticipated  
**Polymerization – Avoid :** None anticipated



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## SECTION 11 : TOXICOLOGICAL INFORMATION

### Information of Product:

No data available

### Information on components

Ingredient	Weight in Product (%)	Acute Toxicity Oral	Acute Toxicity Inhalation	Acute Toxicity Dermal	Acute Toxicity Other
Sodium Bifluoride 1333-83-1	100	80 mg/kg (rat)	Not Available	Not Available	Not Available

## SECTION 12 : ECOLOGICAL INFORMATION

### Information on Product:

Environmental Fate: No data available

Ecotoxicological Information No data available

## SECTION 13 : DISPOSAL CONSIDERATIONS

**US EPA Waste Number** : Not Regulated

**Disposal of Waste Method** : Local disposal laws and regulations will determine the proper waste disposal / recycling /reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected/ all waste materials should be reviewed to determine the applicable hazards (testing may be necessary)

## SECTION 14 : TRANSPORT INFORMATION

### International transport Regulations :

UN / PIN Number UN2439

### US Transportation Regulations :

DOT Classification 8 Corrosive material

DOT Proper Shipping Name Sodium Hydrogen Difluoride, Solid

Packing Group / Exceptions II

### Canadian Transportation of Dangerous Goods (TDG)

TDG Classification 8 Corrosive material





**SECTION 16 : OTHER INFORMATION**

**Full text of H-Statements referred to under sections 2 and 3.**

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product.

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