

SAFETY DATA SHEET SODIUM BIFLUORIDE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

- Trade name SODIUM BIFLUORIDE
- Synonyms Sodium hydrogen fluoride

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance / Mixture

- Chemical industry
- Metal treatment
- Tin plating

1.3 Details of the supplier of the safety data sheet

Contact Information	OFFICE: Madras Fluorine Private Ltd No.71, 4 th Main Road Gandhi Nagar, Adyar Chennai 600 020, India E-mail : exim@mflfluorine.com	FACTORY Madras Fluorine Private Ltd Express Highway Manali Chennai – 600 068, India
Emergency Telephone No:	+91 44 2442 6830 / 2442 0654 MON – FRI : 9.30 AM – 6.00 PM	+91 44 3290 0358 / 2901 1768 MON – SAT : 9.00 AM – 5.30 PM

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Acute toxicity, Category 3
Skin corrosion, Category 1B
Serious eye damage, Category 1

H301: Toxic if swallowed.
H314: Causes severe skin burns and eye damage. H318:
Causes serious eye damage.

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram



Signal Word

- Danger

Hazard Statements

- H301 Toxic if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

Precautionary Statements

Prevention

- P260 Do not breathe dusts or mists.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

- P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- P363 Wash contaminated clothing before reuse.

Storage

- P405 Store locked up.

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

- The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 1 %

2.3 Other hazards which do not result in classification

- H402: Harmful to aquatic life.
- Toxic if swallowed.
- Corrosive
- Causes burns.
- Hazardous decomposition products formed under fire conditions.
- Hydrogen fluoride

SECTION 3: Composition/information on ingredients

3.1 Substance

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Sodium hydrogen difluoride	1333-83-1	>= 99

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

3.2 Mixture

Not applicable, this product is a substance.

SECTION 4: First aid measures

4.1 Description of first-aid measures

In case of inhalation

- In case of accident by inhalation: remove casualty to fresh air and keep at rest.
- Oxygen or artificial respiration if needed.
- Victim to lie down in the recovery position, cover and keep him warm.
- Call a physician immediately.
- Take victim immediately to hospital.

In case of skin contact

- Call a physician immediately.
- Take off contaminated clothing and shoes immediately.
- Wash off with plenty of water.
- Immediately apply calcium gluconate gel 2.5% and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved.
- If fingers/finger nails are touched, even if there is no pain, dip them in a bath of 5% calcium gluconate for 15 to 20 minutes.
- Keep warm and in a quiet place.

In case of eye contact

- Take victim immediately to hospital.
- Immediate medical attention is required.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Rinse the eyes with a calcium gluconate 1% solution in physiological serum (10 ml of calcium gluconate 10% in 90 ml of physiological serum)
- In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).

In case of ingestion

- Call a physician immediately.
- Take victim immediately to hospital.
- **If victim is conscious:**
 - If swallowed, rinse mouth with water (only if the person is conscious).
 - Give to drink a 1% aqueous calcium gluconate solution.
 - Do NOT induce vomiting.
 - Artificial respiration and/or oxygen may be necessary.
- **If victim is unconscious:**
 - Oxygen or artificial respiration if needed.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Symptoms

- Breathing difficulties

Effects

- Inhalation of vapors is irritating to the respiratory system, may cause throat pain and cough.
- Aspiration may cause pulmonary edema and pneumonitis.
- At high concentrations:
 - Risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia

Repeated or prolonged exposure

- Sore throat
- Nose bleeding
- Chronic bronchitis

In case of skin contact

Effects

- Painful irritation, delayed appearance.
- Causes severe burns.
- Risk of shock.
- In case of contact with fingernails, severe pain after several hours.
- Risk of hypocalcemia following the extent of the lesions.

In case of eye contact

Symptoms

- Lachrymation
- Redness
- Swelling of tissue
- Burn

Effects

- May cause permanent eye injury.
- May cause blindness.
- Intoxication hazards by simultaneous inhalation of the product.

In case of ingestion

Symptoms

- Nausea
- Bloody vomiting
- Abdominal pain
- Diarrhea
- Cough
- Severe shortness of breath

Effects

- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
- Risk of throat (o)edema and suffocation.
- Risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia.
- Risk of convulsions, loss of consciousness, deep coma and cardiopulmonary arrest.

4.3 Indication of any immediate medical attention and special treatment needed

- no data available

SECTION 5: Firefighting measures

<u>Flash point</u>	Not applicable
<u>Autoignition temperature</u>	no data available
<u>Flammability / Explosive limit</u>	no data available

5.1 Extinguishing media

Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

- Water may be ineffective.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting

- Not combustible.
- Reacts violently with water.
- Hazardous decomposition products formed under fire conditions.

Hazardous combustion products:

- Hydrogen fluoride
- Hydrogen

5.3 Advice for firefighters

Special protective equipment for fire-fighters

- In the event of fire, wear self-contained breathing apparatus.
- Fire fighters must wear fire resistant personnel protective equipment.
- Wear chemical resistant oversuit

Further information

- Keep product and empty container away from heat and sources of ignition.
- Keep away from water.
- Approach from upwind.
- Suppress (knock down) gases/vapors/mists with a water spray jet.
- After the fire, proceed rapidly with cleaning of surfaces exposed to the fumes in order to limit equipment damage.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

- Keep people away from and upwind of spill/leak.
- Avoid dust formation.

Advice for emergency responders

- Wear self-contained breathing apparatus and protective suit.
- Sweep up to prevent slipping hazard.
- Prevent further leakage or spillage.

6.2 Environmental precautions

- Discharge into the environment must be avoided.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- Prevent product from entering sewage system.

6.3 Methods and materials for containment and cleaning up

- Sweep up and shovel into suitable containers for disposal.
- Avoid dust formation.
- Keep in properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Used in closed system
- Handle small quantities under a lab hood.
- Use only in well-ventilated areas.
- Use only equipment and materials which are compatible with the product.
- Keep away from heat.

Hygiene measures

- Use only in an area equipped with a safety shower.
- When using do not eat, drink or smoke.
- Handle in accordance with good industrial hygiene and safety practice.
- Eye wash bottle with pure water

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- Keep in a dry place.
- Keep container closed.
- Keep in a cool, well-ventilated place.
- Keep away from heat and sources of ignition.
- Avoid dust formation.
- Refer to protective measures listed in sections 7 and 8.
- Keep away from incompatible products

Packaging material

Suitable material

- Fiberboard
- Polyethylene
- Paper.

7.3 Specific end use(s)

- Contact your supplier for additional information

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

Components with workplace occupational exposure limits

Ingredients	Value type	Value	Basis
Sodium hydrogendifluoride	TWA	2.5 mg/m ³	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
CAS number varies with compound Expressed as : Fluorine			
Sodium hydrogendifluoride	TWA	2.5 mg/m ³	American Conference of Governmental Industrial Hygienists
Expressed as : Fluorine			

NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)

Ingredients	CAS-No.	Concentration
Sodium hydrogendifluoride	1333-83-1	250 mg/m ³

Biological Exposure Indices

Ingredients	Value type	Value	Basis
Sodium hydrogendifluoride	BEI	2 mg/l Fluoride Urine Prior to shift (16 hours after exposure ceases)	American Conference of Governmental Industrial Hygienists
Sodium hydrogendifluoride	BEI	3 mg/l Fluoride Urine End of shift (As soon as possible after exposure ceases)	American Conference of Governmental Industrial Hygienists

8.2 Exposure controls

Control measures

Engineering measures

- Provide appropriate exhaust ventilation at places where dust is formed.
- Apply technical measures to comply with the occupational exposure limits.
- Ensure adequate ventilation.
- Refer to protective measures listed in sections 7 and 8.

Individual protection measures

Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.
- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Self-contained breathing apparatus in confined spaces/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection.
- Use only respiratory protection that conforms to international/ national standards.
- Use NIOSH approved respiratory protection.

Hand protection

- Impervious gloves

Suitable material

- PVC
- Neoprene
- Natural Rubber

Eye protection

- Chemical resistant goggles must be worn.
- Dust proof goggles obligatory.

Skin and body protection

- Long sleeved clothing
- Apron/boots in case of dusts.
- Rubber or plastic apron
- Rubber or plastic boots

Hygiene measures

- Use only in an area equipped with a safety shower.
- When using do not eat, drink or smoke.
- Handle in accordance with good industrial hygiene and safety practice.
- Eye wash bottle with pure water

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

Appearance	Form: Physical state: Color:	crystalline, hygroscopic, powder solid white
Particle size	< 0.06 mm (80 %)	
Odor	Pungent	
Odor Threshold	No data available	
pH	1.0 (6.2 g/l) (68 °F (20 °C)) pKa: Not applicable	
Melting point/range	Decomposition: yes Not applicable	
Boiling point/boiling range	Thermal decomposition: yes Not applicable	
Flash point	Not applicable	
Evaporation rate (Butylacetate = 1)	Not applicable	
Flammability (solid, gas)	The product is not flammable.	
Flammability / Explosive limit	Explosiveness: Not explosive	
Autoignition temperature	No data available	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Density	Bulk density: 800 kg/m ³ Relative density: 2.08	
Solubility	Water solubility : 32 g/l (68 °F (20 °C))	
Partition coefficient : n-octanol / water	Not applicable	
Thermal decomposition	> 320 °F (> 160 °C)	
Viscosity	Viscosity, dynamic : Not applicable	
Explosive properties	no data available	

Oxidizing properties

Not considered as oxidizing.

9.2 Other information

- Molecular weight 62 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

- Reacts violently with water.

10.2 Chemical stability

- Stable under recommended storage conditions.
- Reacts violently with water.
- Corrosive in contact with metals
- Gives off hydrogen by reaction with metals.
- Risk of violent reaction.
- Risk of explosion.

10.3 Possibility of hazardous reactions

- Decomposes in contact with water., Gives off hydrogen by reaction with metals.

Conditions to avoid

- Exposure to moisture.
- To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

- glass
- Strong acids
- Strong bases
- Metals

10.6 Hazardous decomposition products

- Hydrogen fluoride
- Hydrogen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

no data available

Acute inhalation toxicity

no data available

Acute dermal toxicity

no data available

Acute toxicity (other routes of administration)

no data available

Skin corrosion/irritation

Corrosive

Serious eye damage/eye irritation

Corrosive

Respiratory or skin sensitization

not sensitizing Test substance: Sodium fluoride

Mutagenicity

Genotoxicity in vitro

Test substance: Sodium fluoride
In vitro tests did not show mutagenic effects

Genotoxicity in vivo

Test substance: Sodium fluoride
In vivo tests did not show mutagenic effects

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA
ACGIH

Toxicity for reproduction and development

Toxicity to reproduction / fertility

Rat
NOAEL parent: 10 - 14 mg/kg
Test substance: Sodium fluoride

Developmental Toxicity/Teratogenicity

no data available

STOT

STOT-single exposure

no data available

STOT-repeated exposure

Inhalation Prolonged exposure - Rat
Test substance: gas
Target Organs: Respiratory system, Kidney, Liver, Testes
observed effect

Inhalation Prolonged exposure - Rat
Test substance: gas
Target Organs: Cardio-vascular system, Nervous system
observed effect

Oral - Mouse
LOAEL: 50 ppm
Test substance: Sodium fluoride
Target Organs: Skeleton

Inhalation - Rat
NOAEL: 0.88 mg/kg
Test substance: Sodium fluoride
Target Organs: Respiratory Tract, Bone, Teeth

Aspiration toxicity

no data available

Further information

no data available
Information given is based on data obtained from similar substances.
corrosive effects
Liver and kidney injuries may occur.
Chronic exposure may entail dental or skeletal fluorosis
Animal studies
carcinogenic effects
Not relevant for Humans
risk of effect to:
toxic effects for reproduction

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

LC50 - 96 h : 51 mg/l - Fishes, Salmo gairdneri
static test

Test substance: Sodium fluoride
Fresh water

Toxicity to aquatic plants

EC50 - 96 h : 43 mg/l - Algae
Test substance: Sodium fluoride
Fresh water

EC50 : 81 mg/l - Algae
Test substance: Sodium fluoride
Sea water

	NOEC - 7 Days : 50 mg/l - Algae static test Test substance: Sodium fluoride Fresh water
	NOEC - 7 Days : 50 mg/l - Algae static test Test substance: Sodium fluoride Sea water
Chronic toxicity to fish	NOEC: 4 mg/l - 21 Days - Oncorhynchus mykiss (rainbow trout) static test Test substance: Sodium fluoride Fresh water
Chronic toxicity to daphnia and other aquatic invertebrates.	NOEC: 8.9 mg/l - 21 Days - Daphnia magna (Water flea) static test Fresh water Sodium fluoride
12.2 Persistence and degradability	
<u>Abiotic degradation</u>	
Stability in water	ionization/neutralization, Medium, Water, Soil complexation/precipitation of inorganic materials, Medium, Water, Soil instantaneous hydrolysis, Medium, Water
Photodegradation	Air neutralization by natural alkalinity
<u>Biodegradation</u>	
Biodegradability	The methods for determining the biological degradability are not applicable to inorganic substances.
12.3 Bioaccumulative potential	
Bioconcentration factor (BCF)	Does not bioaccumulate.
12.4 Mobility in soil	
Adsorption potential (Koc)	Air mobility as solid aerosols Water Solubility(ies) Mobility Soil/sediments potential adsorption pH Test substance fluoride
12.5 Results of PBT and vPvB assessment	no data available
12.6 Other adverse effects	no data available
Ecotoxicity assessment	
Acute aquatic toxicity	Harmful to aquatic organisms.
Chronic aquatic toxicity	Low chronic toxicity.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- In accordance with local and national regulations.
- Refer to manufacturer/supplier for information on recovery/recycling.
- or Dilute with plenty of water.
- Can be eliminated from water by precipitation.
- Filtrate the product and send the cake to a landfill for industrial waste.
- Discharge liquid filtrate to a wastewater treatment system

Waste Code

- Environmental Protection Agency
- Hazardous Waste – YES



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- RCRA Hazardous Waste (40 CFR 302)
- D002 - Corrosive waste – (C)

Advice on cleaning and disposal of packaging

- Clean container with water.
- The empty and clean containers are to be reused in conformity with regulations.
- To avoid treatments, as far as possible, use dedicated containers.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

14.1 UN number	UN 2439
14.2 Proper shipping name	SODIUM HYDROGENDIFLUORIDE
14.3 Transport hazard class	8
Label(s)	8
14.4 Packing group	
Packing group	II
ERG No	154
14.5 Environmental hazards	NO
Marine pollutant	

IDG

14.1 UN number	UN 2439
14.2 Proper shipping name	SODIUM HYDROGENDIFLUORIDE
14.3 Transport hazard class	8
Label(s)	8
14.4 Packing group	
Packing group	II
ERG No	154
14.5 Environmental hazards	NO
Marine pollutant	

NOM

14.1 UN number	UN 2439
14.2 Proper shipping name	SODIUM HYDROGENDIFLUORIDE
14.3 Transport hazard class	8
Label(s)	8
14.4 Packing group	
Packing group	II
ERG No	154
14.5 Environmental hazards	NO
Marine pollutant	

IMDG

14.1 UN number	UN 2439
14.2 Proper shipping name	SODIUM HYDROGENDIFLUORIDE
14.3 Transport hazard class	8
Label(s)	8

14.4 Packing group

Packing group II
ERG No 154

14.5 Environmental hazards NO

Marine pollutant

14.6 Special precautions for user F-A , S-B
EmS

For personal protection see section 8.

IATA

14.1 UN number UN 2439
14.2 Proper shipping name SODIUM HYDROGENDIFLUORIDE, SOLID
14.3 Transport hazard class 8
Label(s): 8

14.4 Packing group

Packing group II
Packing instruction (cargo aircraft) 863
Max net qty / pkg 50.00 kg
Packing instruction (passenger aircraft) 859
Max net qty / pkg 15.00 kg

14.5 Environmental hazards NO

14.6 Special precautions for user
For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	- Listed on Inventory
Mexico INSQ (INSQ)	- In compliance with the inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- In compliance with the inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory

15.2 Federal Regulations

US. EPA EPCRA SARA Title III

SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)

Fire Hazard	No
Reactivity Hazard	No
Sudden Release of Pressure Hazard	No
Acute Health Hazard	Yes
Chronic Health Hazard	Yes

Section 313 Toxic Chemicals (40 CFR 372.65)

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.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

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

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

This material does not contain any components with a section 304 EHS RQ.

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Ingredients	CAS-No.	Reportable quantity
Sodium hydrogendifluoride	1333-83-1	100 lb

15.3 State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

NFPA (National Fire Protection Association) - Classification

Health	3 serious
Flammability	0 minimal
Instability or Reactivity	1 slight
Special Notices	None

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	3 serious
Flammability	0 minimal
Reactivity	1 slight
PPE	Determined by User; dependent on local conditions

Further information

- Product evaluated under the US GHS format.



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Key or legend to abbreviations and acronyms used in the safety data sheet

TWA	8-hour, time-weighted average
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health

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