Material Safety Data Sheet

Sodium Fluoride (RXSOL-19-8203-025)

1. Product and Company Identifaction

Product Name	Sodium Fluoride
Part Number	RXSOL-19-8203-025

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Barka - Muscat, Gandhidham, Kolkata, Chennai, Visakhapatnam, Fujairah, Muscat Oman, Kenya Africa, Canada

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Weight %
Sodium Fluoride	7681-49-4	231-667-8	97-99%

3. Hazards Identification

Signal Word	Danger
Hazard Statements	H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. EUH032 Contact with acids liberates very toxic gas.
Precautionary statements - prevention	P280 Wear protective gloves.
Precautionary statements response	P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water fo several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

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.
Skin Contact	In case of contact, immediately flushes 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.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion:	Do not induce vomiting. Obtain medical attention.If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration.

Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

Flammability	Not Flammable
Flash Point	Not Applicable
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	Not available
Protective Equipment	Use personal protective equipment.
Specific Hazards Arising from the Chemical	Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: Hydrogen fluoride
Special protective equipment for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6. Accidental Release Measures

Spillage	Use appropriate tools to put the spilled solid in a convenient waste disposal container.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.
Personal Protection	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.
Enviromental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up the affected area. Avoid generation of dust

7. Handling and Storage

Handling	Do not ingest. Do not breathe dust. 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, metals, acids, alkalis.
Storage	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.Protect from moisture. Store away from foodstuffs
Advice on general occupational hygiene	Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

Engineering Control	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below 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	Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator exposure limits are exceeded or if irritation or other symptoms are experienced.
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.
Exposure Limit	TWA: 2.5 (mg/m3) from NIOSH Consult local authorities for acceptable exposure limits




Gloves Suit

9. Physical and chemical properties

Form	Crystal / Solid
Colour	White
Odour	Odourless
Odor Threshold	Not Applicable
Melting Point	800-1000°C (decomposition)
Boiling Point	1500-1900 °C at 1,013 hPa
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No Data Available
Explosive limits	No Data Available
Vapour pressure	1 hPa at 1,077 °C
Vapour Density	No information available.
Specific Gravity	2.8 g/cm3 at 20 °C
Partition coefficient	No data available
Explosive properties	None
Solubility	Soluble in water 50 g/l at 20 °C
Ignition temperature	No information available.
Oxidizing properties	None

10. Stability and reactivity

Reactivity	Reacts with acids..
Stability	The product is chemically stable under standard ambient conditions.
Possibility of hazardous reactions	Generates dangerous gases or fumes in contact with: acids Possible formation of : Hydrogen Fluoride.
Conditions to avoid	Strong Heating
Incompatible materials	Reactive with oxidizing agents, metals, acids, alkalis.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. Toxicological information

Rout Of Entry	Inhalation. Ingestion.
Toxicity to Animal	Acute oral toxicity (LD50): 52 mg/kg [Rat].
Toxic Effects on Human	May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).
Special Remarks on other Toxi Effects on Humans:	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reation, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.

Further Information	After absorption: We have no description of any toxic symptoms. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. Systemic effects: Cardiac irregularities, respiratory arrest, Nausea, Unconsciousness, death The following applies to soluble inorganic fluorides in general: may cause irritations to burns in contact with eyes, skin, mucous membranes. Systemic effect: drop in blood calcium level, agitation, spasms, cardiovascular disorders, CNS disorders. Handle in accordance with good industrial hygiene and safety practice

12. Ecological information

Eco Toxicity	Toxicity to fish : LC50 Gambusia affinis (Mosquito fish): 925 mg/l; 96 h (IUCLID). Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 338 mg/l; 48 h (IUCLID)
COD and BOD 5	Not Available
Products Biodegradation:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Mobility in soil	No Information available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	Hazard for drinking water supplies. Discharge into the environment must be avoided.

13. Disposal considerations

Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. Transport information

DOT

UN Number	UN 1690
Proper shipping name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing group	III

TDG

UN Number	UN 1690
Proper shipping name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing group	III

IATA

UN Number	UN 1690
Proper shipping name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing group	III

IMDG/IMO

UN Number	UN 1690
Proper shipping name	SODIUM FLUORIDE, SOLID
Hazard Class	6.1
Packing group	III

15. Regulatory information

Fedral and State Regulation	California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. Connecticut hazardous material survey.: Sodium fluoride Illinois chemical safety act: Sodium fluoride New York release reporting list: Sodium fluoride Rhode Island RTK hazardous substances: Sodium fluoride Pennsylvania RTK: Sodium fluoride Massachusetts RTK: Sodium fluoride Massachusetts spill list: Sodium fluoride New Jersey: Sodium fluoride New Jersey spill list: Sodium fluoride Louisiana spill reporting: Sodium fluoride.
Other Regulation	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.
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

Health Hazard	: 2
Fire Hazard	: 0
Reactivity	: 0
Personal Protection	: E

Fire :

Health Hazard	: 3
Fire Hazard	: 0
Reactivity	: 0
Specific Hazard	:

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.