

## 1. Product and Company Identification

www.rxmarine.com

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](mailto:123@rxmarine.com)  
Website [www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

www.rxmarine.com

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

## 3. Hazards Identification

www.rxmarine.com

|                                       |                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                           | Danger                                                                                                                                                                                                                                                                                                            |
| Hazard Statements                     | H301 Toxic if swallowed.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>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.<br>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician. |

## 4. First Aid Measures

www.rxmarine.com

|              |                                                                                                                                                                                                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>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.                                                                                                 |

## 5. Fire-fighting Measures

[www.rxmarine.com](http://www.rxmarine.com)

|                                               |                                                                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:<br>Hydrogen fluoride                                                  |
| Special protective equipment for firefighters | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by<br>keeping a safe distance or by wearing suitable protective clothing. |

## 6. Accidental Release Measures

[www.rxmarine.com](http://www.rxmarine.com)

|                                                    |                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spillage                                           | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Poisonous solid.<br>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.                                                                                                      |
| Environmental 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).<br>Take up dry. Dispose of properly. Clean up the affected area. Avoid generation of dust                                                                                                         |

## 7. Handling and Storage

[www.rxmarine.com](http://www.rxmarine.com)

|                                        |                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling                               | Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment.<br>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.<br>Wash hands after working with substance.                                                                                                                                                                                        |

## 8. Exposure controls and personal protection

[www.rxmarine.com](http://www.rxmarine.com)

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/m<sup>3</sup>) from NIOSH Consult local authorities for acceptable exposure limits



Gloves Suit

## 9. Physical and chemical properties

[www.rxmarine.com](http://www.rxmarine.com)

|                           |                                  |
|---------------------------|----------------------------------|
| 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/cm <sup>3</sup> 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

[www.rxmarine.com](http://www.rxmarine.com)

|                                    |                                                                     |
|------------------------------------|---------------------------------------------------------------------|
| 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  |

Conditions to avoid  
Incompatible materials  
Hazardous Polymerization

formation of : Hydrogen Fluoride.  
Strong Heating  
Reactive with oxidizing agents, metals, acids, alkalis.  
Hazardous polymerization does not occur.

## 11. Toxicological information

[www.rxmarine.com](http://www.rxmarine.com)

Rout Of Entry  
Toxicity to Animal  
Toxic Effects on Human

Inhalation. Ingestion.  
Acute oral toxicity (LD50): 52 mg/kg [Rat].  
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).  
Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, 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.

Special Remarks on other Toxi Effects on Humans:

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

Further Information

## 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

Eco Toxicity  
COD and BOD 5  
Products Biodegradation:  
Mobility in soil  
Results of PBT and vPvB assessment  
Other adverse effects

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)  
Not Available  
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
No Information available  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
Hazard for drinking water supplies. Discharge into the environment must be avoided.

## 13. Disposal considerations

[www.rxmarine.com](http://www.rxmarine.com)

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

[www.rxmarine.com](http://www.rxmarine.com)

### 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

[www.rxmarine.com](http://www.rxmarine.com)

### Federal 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

[www.rxmarine.com](http://www.rxmarine.com)

### 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 we assume 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 we 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.

**DISCLAIMER OF LIABILITY :** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.