



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

## Material Safety Data Sheet (MSDS)

### RXSOL-60-6212-100

Ammonium Fluoride 10% Solution

### 1. Product and Company Identification

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

|              |                   |
|--------------|-------------------|
| Product Name | Coarse Salt       |
| Product Type | RXSOL-15-1821-025 |

#### Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Chennai, Visakhapatnam, Kandla, Kolkata, Mumbai, Fujairah

|       |                                                          |
|-------|----------------------------------------------------------|
| Phone | +91 22 27815541/ 42                                      |
| Fax   | +91 22 2781 1318 ::::AOH :0091 9322594669                |
| Email | <a href="mailto:mail@rxmarine.com">mail@rxmarine.com</a> |

### 2. Composition / Information on ingredients

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

#### Salt and /or Salt Mixtures Composition comments:

The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers, Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater; components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. The products pertaining to this SDS have various proportions of components which do not meet the listing criteria.

### 3. Hazards Identification

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

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| Physical hazards                | Not classified.                                                           |
| Health hazards                  | Not classified.                                                           |
| Environmental hazards           | Not classified.                                                           |
| OSHA defined hazards            | Not classified.                                                           |
| Label elements<br>Hazard symbol | None.                                                                     |
| Signal word                     | None.                                                                     |
| Hazard statement                | The product and/or mixture does not meet the criteria for classification. |

|                                           |                                                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------|
| Precautionary statement Prevention        | Observe good industrial hygiene practices.                                            |
| Response                                  | Wash hands after handling.                                                            |
| Storage                                   | Store away from incompatible materials, i.e, strong oxidizing agents (see Section 10) |
| Disposal                                  | Dispose of waste and residues in accordance with local authority requirements.        |
| Hazard(s) not otherwise classified (HNOC) | None known.                                                                           |
| Supplemental information                  | Not applicable.                                                                       |

## 4. First Aid Measures

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

|                                                                        |                                                                                                                                                                                 |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation                                                             | Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist. |
| Skin contact                                                           | Rinse skin with water/shower. Get medical attention if irritation develops and persists.                                                                                        |
| Eye contact                                                            | Rinse with water. Get medical attention if irritation develops and persists.                                                                                                    |
| Ingestion                                                              | Rinse mouth. If ingestion of a large amount does occur, seek medical attention.                                                                                                 |
| Most important symptoms/effects, acute and delayed                     | Direct contact with eyes may cause temporary irritation.                                                                                                                        |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically.                                                                                                                                                          |

## 5. Fire-fighting Measures

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

|                                                               |                                                                                                                    |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                  | Salt and salt mixtures are non-combustible.                                                                        |
| Specific hazards arising from the chemical                    | During fire, gases hazardous to health may be formed.                                                              |
| Special protective equipment and precautions for firefighters | Use appropriate firefighting PPE as a general precaution.                                                          |
| Fire-fighting equipment/instructions                          | Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.             |
| Specific methods                                              | In the event of a fire, equipment and methods that are consistent with the combusting material should be utilized. |
| General fire hazards                                          | No unusual fire or explosion hazards noted.                                                                        |
| Hazardous combustion products                                 | Chlorine. Hydrogen chloride. Oxides of sodium.                                                                     |
| Explosion data<br>Sensitivity to mechanical impact            | Not available.                                                                                                     |
| Sensitivity to static discharge                               | Not available.                                                                                                     |

## 6. Accidental Release Measures

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

Personal precautions, protective equipment and emergency procedures:

Restrict area to facilitate clean up.

Methods and materials for containment and cleaning up:

Stop the flow of material, if this is without risk. Prevent direct entry into waterways and sewers. Following product recovery, flush area with water if necessary. For waste disposal, see section 13 of the SDS.

## 7. Handling and Storage

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

Precautions for safe handling:

Use care in handling/storage. Avoid breathing dust.

Conditions for safe storage, including any incompatibilities:

Store in original tightly closed container. Store away from incompatible materials, i.e, strong oxidizing agents (see Section 10)

## 8. Exposure controls and personal protection

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

Occupational exposure limits:

No exposure limits noted for ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:

TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL. TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Safety glasses if eye contact is possible.

Skin protection Hand protection:

If there is constant skin contact, rubber gloves are recommended.

Other:

Wear suitable protective clothing.

Respiratory protection:

No personal respiratory protective equipment normally required.

Thermal hazards:

Not applicable.

General hygiene considerations:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

## 9. Physical and chemical properties

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

Information on basic physical and chemical properties:

|                                                                                 |                |
|---------------------------------------------------------------------------------|----------------|
| Appearance                                                                      | Crystalline.   |
| Physical state                                                                  | Solid.         |
| Form                                                                            | Solid.         |
| Color                                                                           | Varies         |
| Odor                                                                            | Odorless       |
| Odor threshold                                                                  | Not applicable |
| pH                                                                              | Not applicable |
| Melting point/freezing point                                                    | Not applicable |
| Initial boiling point and boiling range                                         | Not applicable |
| Pour point                                                                      | Not applicable |
| Specific gravity                                                                | Not applicable |
| Partition coefficient (n-octanol/water)                                         | Not applicable |
| Flash point                                                                     | Not applicable |
| Evaporation rate                                                                | Not applicable |
| Flammability (solid, gas)                                                       | Not applicable |
| Upper/lower flammability or explosive limits:<br>Flammability limit - lower (%) | Not applicable |
| Flammability limit - upper (%)                                                  | Not applicable |
| Explosive limit - lower (%)                                                     | Not applicable |
| Explosive limit - upper (%)                                                     | Not applicable |
| Vapor pressure                                                                  | Not applicable |
| Vapor density                                                                   | Not applicable |
| Relative density                                                                | Not applicable |
| Solubility(ies)                                                                 | Not applicable |
| Auto-ignition temperature                                                       | Not applicable |

|                           |                |
|---------------------------|----------------|
| Decomposition temperature | Not applicable |
| Viscosity                 | Not applicable |

## 10. Stability and reactivity

www.rxmarine.com

|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| Reactivity                         | None known.                                                       |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.       |
| Chemical stability                 | Material is stable under normal conditions.                       |
| Conditions to avoid                | Contact with incompatible materials, i.e strong oxidizing agents. |
| Incompatible materials             | Strong oxidizing agents.                                          |
| Hazardous decomposition products   | Chlorine gas. Hydrogen chloride. Oxides of sodium.                |

## 11. Toxicological information

www.rxmarine.com

Information on likely routes of exposure:

|                                                                              |                                                          |
|------------------------------------------------------------------------------|----------------------------------------------------------|
| Ingestion                                                                    | Expected to be a low ingestion hazard.                   |
| Inhalation                                                                   | No adverse effects due to inhalation are expected.       |
| Skin contact                                                                 | No adverse effects due to skin contact are expected.     |
| Eye contact                                                                  | Direct contact with eyes may cause temporary irritation. |
| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. |

Information on toxicological effects:

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| Acute toxicity                    | Not classified.                                          |
| Skin corrosion/irritation         | Prolonged skin contact may cause temporary irritation.   |
| Exposure minutes                  | Not available.                                           |
| Erythema value                    | Not available.                                           |
| Oedema value                      | Not available.                                           |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
| Corneal opacity value             | Not available.                                           |
| Iris lesion value                 | Not available.                                           |
| Conjunctival reddening value      | Not available.                                           |
| Conjunctival oedema value         | Not available.                                           |
| Recover days                      | Not available.                                           |

|                                                                |                                                                                                                  |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Respiratory or skin sensitization<br>Respiratory sensitization | Not available.                                                                                                   |
| Skin sensitization                                             | This product is not expected to cause skin sensitization.                                                        |
| Germ cell mutagenicity                                         | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Mutagenicity                                                   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity                                                | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| Reproductive toxicity                                          | This product is not expected to cause reproductive or developmental effects.                                     |
| Teratogenicity                                                 | Not classified.                                                                                                  |
| Specific target organ toxicity - single exposure               | Not classified.                                                                                                  |
| Specific target organ toxicity - repeated exposure             | Not classified.                                                                                                  |
| Aspiration hazard                                              | Not classified.                                                                                                  |
| Chronic effects                                                | Not classified.                                                                                                  |
| Further information                                            | This product has no known adverse effect on human health.                                                        |
| Name of Toxicologically Synergistic Products                   | Not available.                                                                                                   |

## 12. Ecological information

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

|                               |                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| Persistence and degradability | No data is available on the degradability of this product.                                                                                                                                         |
| Bioaccumulative potential     | No data available.                                                                                                                                                                                 |
| Mobility in soil              | No data available.                                                                                                                                                                                 |
| Mobility in general           | No data available.                                                                                                                                                                                 |
| Other adverse effects         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

## 13. Disposal considerations

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

|                              |                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------|
| Disposal instructions :      | Collect and reclaim or dispose in sealed containers in accordance with applicable regulations.                 |
| Local disposal regulations : | Dispose in accordance with all applicable regulations.                                                         |
| Hazardous waste code :       | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |

|                                        |                                                                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues / unused products: | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:Disposal instructions). |
| Contaminated packaging :               | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.      |

## 14. Transport information

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

U.S. Department of Transportation (DOT):  
Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada):  
Not regulated as dangerous goods.

## 15. Regulatory information

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

Canadian federal regulations :

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

WHMIS status :  
Not Controlled

US federal regulations  
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):  
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4):  
Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):  
Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:  
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA):  
Hazard categories Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No  
SARA 302 Extremely  
hazardous substance

No  
SARA 311/312 Hazardous  
chemical  
No  
SARA 313 (TRI reporting)  
Not regulated.

Other federal regulations:  
Safe Drinking Water Act:  
(SDWA)  
Not regulated.

Food and Drug:  
Administration (FDA)  
Not regulated.

US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):  
This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):  
Listed substance  
Not listed.  
US. Massachusetts RTK - Substance List  
Not regulated.  
US. Pennsylvania RTK - Hazardous Substances  
Not regulated.  
US. Rhode Island RTK  
Not regulated.

Inventory status:

| Country(s) or region | Inventory name                                | On inventory (yes/no)* |
|----------------------|-----------------------------------------------|------------------------|
| Canada               | Domestic Substances List (DSL)                | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)           | No                     |
| United States        | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

## 16. Other information

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

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications; usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

---

This Safety Data Sheet is provided by RXSOL. For the most current version of this document, please visit **varanasichemical.com**. This document is prepared in accordance with GHS / OSHA HazCom standards. The information contained herein is believed to be accurate but does not purport to be all-inclusive. It is the responsibility of the user to determine the suitability of this information for their application.