

## 1. Product and Company Identification

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Product Name  
Part Number

CALCIUM FLUORIDE  
RXSOL-60-6606-229

### Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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

## 2. Composition / Information on ingredients

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| Chemical Name    | Cas No    | EC No     | Weight      | Formula          |
|------------------|-----------|-----------|-------------|------------------|
| Calcium fluoride | 7789-75-5 | 232-188-7 | 78,07 g/mol | CaF <sub>2</sub> |

## 3. Hazards Identification

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|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                                | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Hazard Statements                          | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Precautionary statements                   | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Classification of the substance or mixture | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Supplemental Hazard Statements             | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Other hazards                              | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

## 4. First Aid Measures

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|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice | Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                           |                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | carbonate tablets or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored for, since they can occur after exposure. Consult a physician. Show this material safety data sheet to the doctor in attendance. |
| If inhaled                                                | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.                                                                                                                                                                          |
| Eye Contact                                               | Flush eyes with water as a precaution                                                                                                                                                                                                                                                    |
| Swallowed                                                 | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician                                                                                                                                                                                       |
| Skin Contact                                              | First treatment with calcium gluconate paste. Wash off with soap and plenty of water. Consult a physician.                                                                                                                                                                               |
| Inhalation                                                | No data available                                                                                                                                                                                                                                                                        |
| Ingestion                                                 | No data available                                                                                                                                                                                                                                                                        |
| Most important symptoms and effect both acute and delayed | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11                                                                                                                                                                      |
| immediat medical attention and special treatment nedded   | No data available                                                                                                                                                                                                                                                                        |

## 5. Fire-fighting Measures

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|                                                       |                                                                         |
|-------------------------------------------------------|-------------------------------------------------------------------------|
| Flammability                                          | No data available                                                       |
| Suitable extinguishing media                          | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide |
| Unsuitable extinguishing media                        | No data available                                                       |
| Special hazards arising from the substance or mixture | Hydrogen fluoride Calcium oxide                                         |
| Further information                                   | No data available                                                       |
| Hazardous combustion products                         | No data available                                                       |
| Advice for firefighters                               | Wear self-contained breathing apparatus for firefighting if necessary   |
| Protective Equipment                                  | No data available                                                       |
| Specific Hazards Arising from the Chemical            | No data available                                                       |

## 6. Accidental Release Measures

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|                                                                     |                                                                                                                                                           |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust. For personal protection see section 8 |
| Spillage                                                            | No data available                                                                                                                                         |
| Personal Protection                                                 | No data available                                                                                                                                         |
| Enviromental Precaution                                             | Do not let product enter drains. Risk of explosion.                                                                                                       |
| Methods and materials for containment and cleaning                  | No data available                                                                                                                                         |
| Reference to other sections                                         | For disposal see section 13                                                                                                                               |

## 7. Handling and Storage

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|                                                 |                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | Provide appropriate exhaust ventilation at places where dust is formed.                                                                                    |
| Incompatible materials                          | No data available                                                                                                                                          |
| Hygiene measures                                | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For precautions see section 2.2 |
| Advice on safe handling                         | Avoid formation of dust and aerosols.                                                                                                                      |
| Storage conditions                              | Keep container tightly closed in a dry and well-ventilated place. Store in cool place. hygroscopic                                                         |
| Storage class                                   | Storage class (TRGS 510): 13: Non Combustible Solids                                                                                                       |
| Specific end use(s)                             | Apart from the uses mentioned in section 1.2 no other specific uses are                                                                                    |

## 8. Exposure controls and personal protection

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### Exposure controls

#### Engineering Control

#### Eye/face protection

#### Body Protection

#### Skin protection

#### Respiratory protection

#### Other Protection Measure

### Personal protective equipment

#### No data available

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness 0,11 mm Break through time 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material Nitrile rubber Minimum layer thickness: 0,11 mm Break through time 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection is not required Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use Aldrich- 378801 Page 5 of 9 The life science business of Merck operates as MilliporeSigma in the US and Canada respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

#### No data available

## 9. Physical and chemical properties

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### Physical state

#### Colour

#### Odour

#### Odor Threshold

#### pH

#### Melting Point

#### Boiling Point

#### Flash Point

#### Evaporation Rate

#### Flammability (solid, gas)

#### Explosive limits

#### Upper/lower flammability or explosive limits

#### Autoignition temperature

### Crystalline

#### White

#### Odorless

#### No data available

#### No data available

#### 1.360 °C

#### 2.500 °C - lit.

#### No data available

#### No data available

#### No data available

#### No data available

#### No data available

#### No data available

|                           |                         |
|---------------------------|-------------------------|
| Decomposition temperature | No data available       |
| Vapour pressure           | No data available       |
| Viscosity                 | No data available       |
| Density                   | 3,18 g/mL at 25 °C - li |
| Relative Density          | No data available       |
| Specific Gravity          | No data available       |
| Partition coefficient     | No data available       |
| Explosive properties      | No data available       |
| Solubility                | 0,015 g/l at 18 °C      |
| Ignition temperature      | No data available       |
| Particle characteristics  | No data available       |

## 10. Stability and reactivity

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|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Reactivity                         | No data available                            |
| Chemical stability                 | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | No data available                            |
| Conditions to avoid                | No data available                            |
| Incompatible materials             | Acids Strong oxidizing agents                |
| Hazardous product decomposition    | No data available                            |

## 11. Toxicological information

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|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                                 | LD50 Oral - Rat - 4.250 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia. Respiratory disorder (RTECS) LC50 Inhalation - Rat - male and female - 4 h - > 5,07 mg/l - dust/mist (OECD Test Guideline 403)                                                                                                                                                                                                                                                                                                                                                                            |
| Skin corrosion/irritation                      | Skin - Rabbit No skin irritation - 4 h (OECD Test Guideline 404)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Serious eye damage/irritation                  | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Respiratory or skin sensitization              | Local lymph node assay (LLNA) - Mouse negative (OECD Test Guideline 429)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Carcinogenicity                                | This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Germ cell mutagenicity                         | Test Type Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative |
| Reproductive toxicity                          | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specific target organ toxicity-single exposure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Additional Information                         | Repeated dose toxicity - Rat - male and female - Inhalation - 20 Days RTECS: EW1760000 Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Cannot be excluded: Hazardous properties cannot be excluded, but are relatively improbable due to the compound's poor water solubility. Handle in accordance with good industrial hygiene and safety practice.                                                                                                       |

## 12. Ecological information

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|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence and degradability                       | The methods for determining biodegradability are not applicable to inorganic substances.                                                                                                           |
| Toxicity to fish                                    | No data available                                                                                                                                                                                  |
| Toxicity to daphnia and other aquatic invertebrates | No data available                                                                                                                                                                                  |
| Toxicity                                            | No data available                                                                                                                                                                                  |
| Toxicity to bacteria                                | No data available                                                                                                                                                                                  |
| Toxicity to algae                                   | No data available                                                                                                                                                                                  |
| Products Biodegradation                             | No data available                                                                                                                                                                                  |
| Mobility in soil                                    | No data available                                                                                                                                                                                  |
| Results of PBT and PvB assessment                   | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| Endocrine disrupting properties                     | No data available                                                                                                                                                                                  |
| Other adverse effects                               | No data available                                                                                                                                                                                  |

### 13. Disposal considerations

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|                        |                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. |
| Contaminated packaging | Dispose of as unused product.                                                                                                                                                                                    |
| Waste treatment Method | No data available                                                                                                                                                                                                |

### 14. Transport information

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|                              |                                                                                 |
|------------------------------|---------------------------------------------------------------------------------|
| UN number                    | ADR/RID:- IMDG:- IATA:-                                                         |
| UN proper shipping name      | ADR/RID:Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods |
| Transport hazard classes     | ADR/RID:- IMDG:- IATA:-                                                         |
| Packaging group              | ADR/RID:- IMDG:- IATA:-                                                         |
| Environmental hazards        | ADR/RID:No IMDG Marine pollutant:No IATA: No                                    |
| Special precautions for user | No data available                                                               |
| Further information          | No data available                                                               |

### 15. Regulatory information

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|                                                                                                |                                                                                                 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 |
| Other regulations                                                                              | No data available                                                                               |
| Chemical Safety Assessment                                                                     | For this product a chemical safety assessment was not carried out                               |

### 16. Other information

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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
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advised of the possibility of such damages.

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No data available