

## 1. Product and Company Identification

www.rxmarine.com

Product Name Calcium chloride dihydrate

Part Number RXSOL-19-2109-050

### 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

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 ::AOH :0091 9821214367

Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

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

## 2. Composition / Information on ingredients

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| Chemical Name               | CAS No     | Weight |
|-----------------------------|------------|--------|
| Calcium chloride, dihydrate | 10035-04-8 | >95    |
| Calcium chloride            | 10043-52-4 | -      |

## 3. Hazards Identification

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Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label Elements

Signal Word

Warning

Hazard Statements

Causes serious eye irritation

Precautionary Statements

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None identified

## 4. First Aid Measures

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Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

Ingestion  
Most important symptoms and effects  
Notes to Physician

medical device. Get medical attention. If not breathing, give artificial respiration.  
Do NOT induce vomiting. Get medical attention.  
No information available  
Treat symptomatically

## 5. Fire-fighting Measures

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Suitable extinguishing media  
Unsuitable extinguishing media  
Flash Point  
Method  
Autoignition Temperature  
Explosion Limits  
Upper  
Lower  
Sensitivity to Mechanical Impact  
Sensitivity to Static Discharge  
Specific Hazards Arising from the Chemical  
Hazardous Combustion Products  
Protective Equipment and Precautions for Firefighters

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.  
No information available  
No information available  
No information available  
No information available  
No data available  
No data available  
No information available  
No information available  
Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.  
Hydrogen chloride gas.  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

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Personal precautions  
Environmental Precautions  
Methods for Containment and Clean Up

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation  
Should not be released into the environment. See Section 12 for additional Ecological Information.  
Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## 7. Handling and Storage

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Handling  
Storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Wash hands before breaks and immediately after handling the product.  
Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

## 8. Exposure controls and personal protection

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### Exposure Guidelines

Engineering Measures  
Personal Protective Equipment  
Eye/face Protection

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.  
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR

Skin and body protection  
Respiratory Protection  
Recommended Filter type  
Hygiene Measures

1910.133 or European Standard EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure  
No protective equipment is needed under normal use conditions.  
Particle filter.  
Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

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|  |   |
|--|---|
| Physical state                         | Solid                                   |
| Appearance                             | Beige - White                           |
| Odor                                   | Odorless                                |
| Odor Threshold                         | No information available                |
| pH                                     | 4.5-6.5 100 g/l aq. sol                 |
| Melting Point/Range                    | 175 °C / 347 °F                         |
| Boiling Point/Range                    | No information available                |
| Flash Point                            | No information available                |
| Evaporation Rate                       | Not applicable                          |
| Flammability (solid,gas)               | No information available                |
| Flammability or explosive limits       |   |
| Upper                                  | No data available                       |
| Lower                                  | No data available                       |
| Vapor Pressure                         | No information available                |
| Vapor Density                          | Not applicable                          |
| Specific Gravity                       | 0.830                                   |
| Solubility                             | 1000 g/L @ 0 °C                         |
| Partition coefficient; n-octanol/water | No data available                       |
| Autoignition Temperature               | No information available                |
| Decomposition Temperature              | No information available                |
| Viscosity                              | Not applicable                          |
| Molecular Formula                      | Ca Cl <sub>2</sub> · 2 H <sub>2</sub> O |
| Molecular Weight                       | 147.02                                  |

## 10. Stability and reactivity

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|                                  |   |
|----------------------------------|---|
| Reactive Hazard                  | None known, based on information available  |
| Stability                        | Hygroscopic.  |
| Conditions to avoid              | Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water. |
| Incompatible materials           | Strong oxidizing agents   |
| Hazardous Decomposition Products | Hydrogen chloride gas   |
| Hazardous Polymerization         | Hazardous polymerization does not occur.  |
| Hazardous Reactions              | None under normal processing  |

## 11. Toxicological information

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### Acute Toxicity

### Product Information

### Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------|-----------|-------------|-----------------|
|-----------|-----------|-------------|-----------------|

|                  |                    |                              |            |
|------------------|--------------------|------------------------------|------------|
| Calcium chloride | 2301 mg/kg ( Rat ) | LD50 > 5000 mg/kg ( Rabbit ) | Not listed |
|------------------|--------------------|------------------------------|------------|

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |               |             |            |              |             |               |   |
|--|---------------|-------------|------------|--------------|-------------|---------------|---|
| Irritation                                 |               |             |            |              |             |               | Irritating to eyes  |
| Sensitization                              |               |             |            |              |             |               | No information available  |
| Carcinogenicity                            |               |             |            |              |             |               | The table below indicates whether each agency has listed any ingredient as acarcinogen. |
| <b>Component</b>                           | <b>CAS No</b> | <b>IARC</b> | <b>NTP</b> | <b>ACGIH</b> | <b>OSHA</b> | <b>Mexico</b> |   |
| Calcium chloride, dihydrate                | 10035-04-8    | Not listed  | Not listed | Not listed   | Not listed  | Not listed    | Not listed  |
| Calcium chloride                           | 10043-52-4    | Not listed  | Not listed | Not listed   | Not listed  | Not listed    | Not listed  |
| Mutagenic Effects                          |               |             |            |              |             |               | No information available  |
| Reproductive Effects                       |               |             |            |              |             |               | No information available  |
| Developmental Effects                      |               |             |            |              |             |               | No information available  |
| Teratogenicity                             |               |             |            |              |             |               | No information available  |
| STOT - single exposure                     |               |             |            |              |             |               | None known  |
| STOT - repeated exposure                   |               |             |            |              |             |               | None known  |
| Aspiration hazard                          |               |             |            |              |             |               | No information available  |
| Symptoms / effects, both acute and delayed |               |             |            |              |             |               | No information available  |
| Endocrine Disruptor Information            |               |             |            |              |             |               | No information available  |
| Other Adverse Effects                      |               |             |            |              |             |               | The toxicological properties have not been fully investigated.                          |

## 12. Ecological information

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|                               |                         |   |                 |                     |  |
|-------------------------------|-------------------------|---|-----------------|---------------------|--|
| Ecotoxicity                   |                         |   |                 |                     | Do not empty into drains.  |
| <b>Component</b>              | <b>Freshwater Algae</b> | <b>Freshwater Fish</b>                              | <b>Microtox</b> | <b>Water Flea</b>   |  |
| Calcium chloride, dihydrate   | -                       | Lepomis macrochirus:<br>LC50:<br><br>10650 mg/L/96h | -               | EC50: 3005 mg/L/48h |  |
| Calcium chloride              | Not listed              | Lepomis macrochirus:<br>LC50:<br><br>10650 mg/L/96h | Not listed      | EC50: 52 mg/L/48h   |  |
| Persistence and Degradability |                         |   |                 |                     | Soluble in water Persistence is unlikely based on information available. |
| Bioaccumulation/ Accumulation |                         |   |                 |                     | No information available   |
| Mobility                      |                         |   |                 |                     | Will likely be mobile in the environment due to its water solubility.    |
| <b>Component</b>              |                         |   |                 |                     | <b>log Pow</b>   |
| Calcium chloride, dihydrate   |                         |   |                 |                     | 0.05   |

## 13. Disposal considerations

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|                        |  |
|------------------------|--|
| Waste Disposal Methods | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification |
|------------------------|--|

## 14. Transport information

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|      |               |
|------|---------------|
| DOT  | Not regulated |
| TDG  | Not regulated |
| IATA | Not regulated |

## 15. Regulatory information

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### United States of America Inventory

| Component                   | CAS No     | TSCA | TSCA notification -<br>Active-Inactive | Inventory TSCA - EPA<br>RegulatoryFlags |
|-----------------------------|------------|------|--|---|
| Calcium chloride, dihydrate | 10035-04-8 | X    | -                                      | -                                       |
| Calcium chloride            | 10043-52-4 | -    | ACTIVE                                 | -                                       |

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea(KECL).

| Component                   | CAS No     | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|-----------------------------|------------|-----|------|-----------|-------|------|------|------|-------|----------|
| Calcium chloride, dihydrate | 10035-04-8 | -   | -    | -         | X     | X    | X    | X    | X     | -        |
| Calcium chloride            | 10043-52-4 | X   | -    | 233-140-8 | X     | X    | X    | X    | X     | KE-04496 |

### U.S. Federal Regulations

|  |   |
|--|---|
| SARA 313   | Not applicable  |
| SARA 311/312 Hazard Categories                       | See section 2 for more information                          |
| CWA (Clean Water Act)                                | Not applicable  |
| Clean Air Act  | Not applicable  |
| OSHA - Occupational Safety and Health Administration | Not applicable  |
| CERCLA   | Not applicable  |
| California Proposition 65                            | This product does not contain any Proposition 65 chemicals. |
| U.S. State Right-to-Know                             | Not applicable  |

### Regulations

#### U.S. Department of Transportation

|                                      |  |
|--------------------------------------|--|
| Reportable Quantity (RQ):            | N  |
| DOT Marine Pollutant                 | N  |
| DOT Severe Marine Pollutant          | N  |
| U.S. Department of Homeland Security | This product does not contain any DHS chemicals. |

#### Other International Regulations

|                |                          |
|----------------|--------------------------|
| Mexico - Grade | No information available |
|----------------|--------------------------|

### Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component                   | CAS No     | OECD HPV       | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|-----------------------------|------------|----------------|---------------------------------|------------------------------|--|
| Calcium chloride, dihydrate | 10035-04-8 | Not applicable | Not applicable                  | Not applicable               | Not applicable                                   |
| Calcium chloride            | 10043-52-4 | Listed         | Not applicable                  | Not applicable               | Not applicable                                   |

### Other International Regulations

| Component | CAS No | Seveso III Directive<br>(2012/18/EC) - | SevesoIII Directive<br>(2012/18/EC) - | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste) |
|-----------|--------|--|---------------------------------------|-------------------------------|---------------------------------------|
|-----------|--------|--|---------------------------------------|-------------------------------|---------------------------------------|

|                             |            | Qualifying Quantities           | Qualifying Quantities          |                |                |
|-----------------------------|------------|---------------------------------|--------------------------------|----------------|----------------|
|                             |            | for Major Accident Notification | for Safety Report Requirements |                |                |
| Calcium chloride, dihydrate | 10035-04-8 | Not applicable                  | Not applicable                 | Not applicable | Not applicable |
| Calcium chloride            | 10043-52-4 | Not applicable                  | Not applicable                 | Not applicable | Not applicable |

## 16. Other information

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### Other Information

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