



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

**RXSOL-40-4089-025**

EWT Coagulant

## Material Safety Data Sheet (MSDS)

### 1. Product and Company Identification

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

|              |                   |
|--------------|-------------------|
| Product Name | RXSOL-40-4089-025 |
| Product Type | EWT Coagulant     |

Company Details:

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

Stock Point : Mumbai, Kolkata, Chennai, Visakhapatnam, Gandhidham, Fujairah, Muscat, Canada

|       |                                                          |
|-------|----------------------------------------------------------|
| Phone | +91 22 27815540 / 41 / 42                                |
| Fax   | +91 22 2781 1318 ::::AOH :0091 9821214367                |
| Email | <a href="mailto:mail@rxmarine.com">mail@rxmarine.com</a> |

### 2. Composition / Information on ingredients

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

| Hazardous Components                                                            | CAS-No.    | EINECS-No. | Concentration | Symbol(s) | R-phrases(s) |
|---------------------------------------------------------------------------------|------------|------------|---------------|-----------|--------------|
| DIMETHYLAMINE,<br>POLYMER WITH<br>EPICHLOROHYDRIN<br>AND NMETHYLMETHANAM<br>INE | 42751-79-1 |            | >=25 - <40%   |           | R52/53       |
| Anionic polyacrylamide                                                          | 9003-05-8  |            | 40- 50        |           | R36 R37 R38  |
| Dialuminium chloride<br>pentahydroxide                                          | 12042-91-0 | 234-933-1  | >=25 - <40%   | Xi        | R36/37/38    |

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 3. Hazards Identification

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|                |                                                                                                                                                   |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard Summary | Irritant                                                                                                                                          |
| Risks          | Irritating to eyes, respiratory system and skin.<br>Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

#### 4. First Aid Measures

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|                     |                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Information | Consult a physician. Show this safety data sheet to the doctor in attendance.                                                                                                                                 |
| Eyes                | Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses.                                                                                 |
| Skin                | Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.                     |
| Ingestion           | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.                                                                       |
| Inhalation          | Move to fresh air. In case of shortness of breath, give oxygen. If symptoms persist, call a physician. Move to fresh air. If symptoms persist, call a physician. In case of shortness of breath, give oxygen. |

#### 5. Fire-fighting Measures

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|                                |                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | ABC powder, Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Water mist                                                                                                                                                                                                                                                                           |
| Unsuitable extinguishing media | DO NOT USE: Halons                                                                                                                                                                                                                                                                                                                                |
| Hazardous combustion products  | Carbon dioxide and carbon monoxide, nitrogen oxides (NO <sub>x</sub> ), Hydrogen, Sulphur oxides                                                                                                                                                                                                                                                  |
| Thermal decomposition          | No data available                                                                                                                                                                                                                                                                                                                                 |
| Precautions for fire-fighting  | Do not allow run-off from fire fighting to enter drains or water courses. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Personal protective equipment  | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.                                                                                                                                                                                                                                                 |

#### 6. Accidental Release Measures

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|                           |                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.                 |
| Environmental precautions | Prevent further leakage or spillage if safe to do so.                                                                             |
| Methods for cleaning up   | Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal. |
| Other information         | Comply with all applicable federal, state, and local regulations.                                                                 |

#### 7. Handling and Storage

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|          |                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling | Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding of the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area. Normal measures for preventive fire protection. |
| Storage  | Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Stable under recommended storage conditions. Protect from frost.                                                                                                                                                                                                             |

## 8. Exposure controls and personal protection

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### Exposure Guidelines

|                                                       |         |  |
|-------------------------------------------------------|---------|--|
| Dialuminium chloride pentahydroxid (eCAS 12042-91-0 ) |         |  |
| MAC (NL)                                              | 2 mg/m3 |  |

### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location.

### Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear as appropriate: Safety shoes

Wear resistant gloves such as: Neoprene, butyl-rubber

### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## 9. Physical and chemical properties

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|                                               |                   |
|-----------------------------------------------|-------------------|
| Physical state                                | Liquid            |
| Form                                          | No data available |
| Colour                                        | Yellow            |
| Odour                                         | No data available |
| Boiling point/boiling range                   | (>)100,00 °C      |
| Melting point/range                           | (<)-4 °C          |
| Sublimation point                             | No data available |
| pH                                            | (+/- 0.7)4        |
| Flash point                                   | Not applicable    |
| Ignition temperature                          | No data available |
| Evaporation rate                              | No data available |
| Lower explosion limit / Upper explosion limit | No data available |
| Dust explosion class                          | No data available |

|                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| Dust explosion constant                | No data available                                 |
| Burning number                         | No data available                                 |
| Particle size                          | No data available                                 |
| Vapour pressure                        | No data available                                 |
| Vapour density                         | No data available                                 |
| Density                                | (+/- 0.14)1,235 g/cm <sup>3</sup> @ 77 °F / 25 °C |
| Bulk density                           | no data available                                 |
| Solubility(ies)                        | no data available                                 |
| Partition coefficient: n-octanol/water | no data available                                 |
| log Pow                                | no data available                                 |
| Autoignition temperature               | no data available                                 |
| Viscosity, dynamic                     | (+/- 81)225 mPa.s @ 25 °C                         |
| Viscosity, kinematic                   | no data available                                 |
| Hydrolysis                             | no data available                                 |
| Physico-chemical removability          | no data available                                 |

## 10. Stability and reactivity

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

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Stability                        | No hazards to be specially mentioned.                                 |
| Conditions to avoid              | Freezing temperatures.                                                |
| Incompatible products            | Aluminum, Copper, Iron, strong mineral acids, Strong oxidizing agents |
| Hazardous decomposition products | Carbon dioxide and carbon monoxide, nitrogen oxides (NOx), Hydrogen   |
| Hazardous reactions              | Hazardous polymerisation does not occur.                              |

## 11. Toxicological information

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Exposure routes ::: Skin contact, Eye Contact, Ingestion

Eye contact ::: Causes eye irritation.

Skin contact ::: Causes skin irritation.

Ingestion ::: Not known to be harmful if swallowed.

Inhalation ::: Not known to be harmful if inhaled.

Aggravated Medical Condition ::: No data available

Symptoms ::: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs ::: No data available

Acute oral toxicity

|                                                                                        |                          |
|----------------------------------------------------------------------------------------|--------------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : LD 50 Rat: 5.000 mg/kg |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available      |

#### Acute inhalation toxicity

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : no data available |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available |

#### Acute dermal toxicity

|                                                                                        |                                     |
|----------------------------------------------------------------------------------------|-------------------------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : LD 50<br>Rabbit:<br>> 2.000 mg/kg |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available                 |

## 12. Ecological information

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

#### Elimination information (per sistance and degradability)

##### Biodegradability

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : no data available |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available |

##### Physico-chemical removability

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : no data available |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available |

Bioaccumulation : The bioaccumulation potential cannot be determined.

#### Ecotoxicity effects

##### Toxicity to fish

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : no data available |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available |

##### Toxicity to daphnia and other aquatic inver tebrates.

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : no data available |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available |

#### Toxicity to algae

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : no data available |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available |

#### Toxicity to bacteria

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| DIMETHYLAMINE, POLYMER WITH<br>EPICHLOROHYDRIN AND NMETHYLMETHANAMINE<br>(42751-79-1 ) | : no data available |
| Dialuminium chloride pentahydroxide (12042-91-0 )                                      | : no data available |

### 13. Disposal considerations

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

#### Waste disposal methods

Dispose of in accordance with the European Directives on waste and hazardous waste. Do not contaminate ponds, waterways or ditches with chemical or used container. Container hazardous when empty. Dispose of in accordance with local regulations.

#### Empty packaging

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

#### European Waste Catalogue

The Waste code should be assigned in discussion between the user and the waste disposal company.

### 14. Transport information

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

#### REGULATION

| ID<br>NUMBER | PROPER SHIPPING<br>NAME | *HAZARD<br>CLASS | SUBSIDIARY<br>HAZARDS | PACKING<br>GROUP | MARINE<br>POLLUTANT /<br>LTD. QTY. |
|--------------|-------------------------|------------------|-----------------------|------------------|------------------------------------|
|--------------|-------------------------|------------------|-----------------------|------------------|------------------------------------|

#### ADR

Not dangerous goods

#### ADNR

Not dangerous goods

#### RID

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

## INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

## INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### 15. Regulatory information

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

Hazard symbols

Irritant

R-phrases(s)

|           |                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|
| R36/37/38 | Irritating to eyes, respiratory system and skin.                                              |
| R52/53    | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

S-phrases(s)

|        |                                                                                               |
|--------|-----------------------------------------------------------------------------------------------|
| S26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S37/39 | Wear suitable gloves and eye/face protection.                                                 |
| S51    | Use only in well-ventilated areas.                                                            |
| S60    | This material and its container must be disposed of as hazardous waste.                       |

Notification status

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| US. Toxic Substances Control Act                                                        | y (positive listing) |
| Australia. Industrial Chemical (Notification and Assessment) Act                        | y (positive listing) |
| Canada. Canadian Environmental Protection Act (CEPA).                                   | y (positive listing) |
| Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)Japan. Kashin-Hou Law List | n (Negative listing) |
| Korea. Toxic Chemical Control Law (TCCL) List                                           | y (positive listing) |
| Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act           | n (Negative listing) |
| China. Inventory of Existing Chemical Substances                                        | n (Negative listing) |

ABM Class

ABM 8A Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ABM Class

ABM 8A Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 16. Other information

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

Full text of R-phrases referred to under sections 2 and 3

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36/37/38 Irritating to eyes, respiratory system and skin.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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