

# Safety Data Sheet

## 1. IDENTIFICATION

### Cationic Polymer

**Use:** Processing aid for industrial applications  
**Company:** Chemical Research Products Industrial Sales Incorporated  
475 J.P Rizal St., Mahabang Parang, Sta. Maria, Bulacan 3022  
**Telephone No.:** (044) 703 6998  
**Website:** [www.chemicalresearchph.com](http://www.chemicalresearchph.com)

Emergency Information

Chemical Research Technical Tel. No.: (02) 687-6541

## 2. HAZARD(s) IDENTIFICATION

**GHS Classification:** None needed according to classification criteria

**Label Element:**



**Signal Word:** **Warning**

**Hazard Statement:** Aqueous solutions or powders that become wet render surfaces extremely slippery.

### Precautionary Statements

- **Prevention:** Wash face, hands and any exposed skin thoroughly after handling.  
Keep only in original container.
- **Response:** 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.  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable breathing.

- **Storage:** Store in a cool dry place

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Components**  
Cationic Polymer

### 4. FIRST-AID MEASURES

**Eyes:** Immediately flush eyes gently with warm water at least 15 minutes. Washing with in one minute is essential to achieve maximum effectiveness. Seek immediate medical attention.

**Skin:** Promptly wash with mild soap and water at least 15 minutes. Remove contaminated clothing and shoes. If skin irritation occurs; Get medical advice/attention.

**Swallowing:** Do NOT induce vomiting. Rinse mouth with water. Drink 1 or 2 glasses of water or milk. If symptoms persist, call a physician. Never give anything by mouth to an unconscious person. Get medical attention.

**Inhalation:** Remove patient to fresh air. Keep patient warm and at rest. Apply oxygen or artificial respiration if need. Call a physician.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water spray, dry chemical, CO<sub>2</sub> or class B extinguishing agent.

**Special Exposure Hazard:** The product become very slippery underfoot when wet.

**Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus exposed to vapors or products of combustion.

**Advice for Firefighters:** Product is a nonflammable. Avoid breathing mists or spray.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precaution:** Avoid contact with skin, eyes and clothing. Wear adequate personal protective clothing and equipment. Respiratory protection may be required if dust is created during clean-up operations.

**Environmental Precaution:** Avoid runoff into storm sewers and ditches which lead to waterways.

- Clean up Methods:** Product becomes slippery and difficult to handle when wet; spills are best handled while dry. Sweep up and collect dry product. Absorb wet product with vermiculite or other inert material then water wash area to waste treatment.
- Additional Information:** Dispose of solidified material in accordance with federal, state, local or other applicable laws and regulations.

## 7. HANDLING and STORAGE

- Handling:** Use good personal hygiene practice. Wash after handling; Wear chemical splash goggles, gloves, and protective clothing when handling; Avoid contact with eyes, skin and clothing.
- Storage:** Keep in a dry, cool place (0 - 35 °C).

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

- Personal Protection:** Avoid contact, wear gloves, safety boots, safety glasses and overalls
- Respiratory Protection:** NIOSH/MSHA approved respiratory protection equipment is recommended.
- Eye Protection:** Chemical splash goggles and face shield
- Skin Protection:** Wear resistance gloves and impervious clothing and boots.
- Other Personal Protection**
- Data:** Eyewash fountains and safety showers must be easily accessible.
- Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL and CHEMICAL PROPERTIES

- Appearance: Free flowing white powder
- Odor: None
- pH: 6.0-7.0 @ 2 g/l
- Specific Gravity: No data available
- Vapor Pressure: No data available
- Boiling Point: No data available
- Freezing Point: No data available
- Evaporation Rate: No data available
- Solubility in Water: Dissolves in water
- Viscosity: No data available
- Relative Density: 0.7 – 0.8 g/cm<sup>3</sup>

## 10. STABILITY and REACTIVITY

<b>Conditions to Avoid:</b>	Avoid extreme temperatures, wet damp and humid storage condition.
<b>Materials to Avoid:</b>	Oxidizing agents may cause exothermic reactions.
<b>Hazardous Decomposition Products:</b>	No decomposition if stored and applied as directed. Thermal decomposition may produce Nitrogen Oxide (Nox) and Carbon Oxide (Cox).

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Oral	: LD50/oral/rat > 5000 mg/kg.
Skin	: The results of testing on rabbits showed this material to be non-toxic even at high dose levels.
Inhalation	: The product is not expected to be toxic by inhalation.

### Irritation

Skin	: Based on laboratory tests, this product does not cause skin irritation.
Eyes	: Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.
Sensitization	: The results of testing on guinea pigs showed this material to be non-sensitizing.
Chronic Toxicity:	A two-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects.

## 12. ECOLOGICAL INFORMATION

### Ecological Information

#### Aquatic Toxicity

Toxicity to fish	: LC50/Danio rerio/96 hours > 10-100 mg/l (OECD 203).
Toxicity to daphnia	: EC50/Daphnia magna/48 hours > 50 mg/l (OECD 202).
Toxicity to algae	: Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

#### Environmental Fate

Hydrolysis	: At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.
Bioaccumulation	: Does not bioaccumulate.
Other ecological	

Information : The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

### 13. DISPOSAL CONSIDERATION

**Disposal of wastes:** Do not put solutions containing this product into sewer systems. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulation. Do not re-use empty containers.

**Contaminated Packaging:** Since empty containers retain product residue, follow label warnings even after container is emptied.

### 14. TRANSPORT INFORMATION

Land Transport (ADR / RID)  
No classification assigned.

Sea Transport (IMDG)  
No classification assigned.

Air Transport (IATA)  
No classification assigned.

### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

All components are on the U.S. EPA TSCA Inventory List. Supplier(s) of proprietary component(s) have stated that their components appear on the Canadian DSL/NDSL.

#### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

#### Not listed under California Proposition 65

Canada Regulations This product is not WHMIS controlled.

#### Classification and Labelling

This product is not classified as dangerous and need not be labelled according to EC-Derivatives

as amended.

**National Inventory**

Philippines (PICCS):

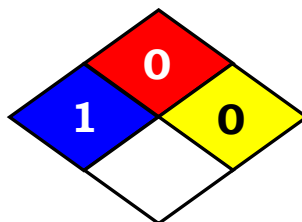
All components of this product are either listed on the inventory or are exempt from listing.

**16. OTHER INFORMATION**

**HMIS**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>E</b>

**NFPA**



**HMIS Rating**

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

**NFPA Ratings**

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.