

Cationic polymer

Safety Data Sheet

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Section 01 - Product And Company Identification

Product Identifier Cationic polymer

Product Use and Restrictions on

Use

Cationic polymer used for clarification of water and wastewater in industrial, mining and

municipal applications.

Initial Supplier Identifier CHEMWORK CO.,LTD.

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Section 02 - Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

Chemical NameCAS NumberWeight %Unique IdentifiersCationic polymer26062-79-3>85%Not Available

Section 04 - First Aid Measures

Inhalation If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if

breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if

irritation persists.

Skin Contact / Absorption Rinse skin with water and soap. Seek medical attention if irritation occurs or persists.

Eye Contact Immediately flush eyes with plenty of water for at least 30 minutes. Forcibly hold eyelids

apart to ensure complete irrigation of eye tissue. Seek medical attention.

Ingestion Rinse mouth. DO NOT INDUCE VOMITING. Seek medical attention if symptoms occur.

Additional Information Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media Water, water spray, foam, carbon dioxide (CO₂), dry powder.

Unsuitable Extinguishing Media None.

Specific Hazards Arising From the Carbon oxides and nitrogen oxides. **Chemical**

Special Protective Equipment and Wear NIOSH-approved self-contained breathing apparatus and protective clothing. **Precautions for Fire-Fighters**

Further Information Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures Wear appropriate personal protective equipment. Ventilate area. Only enter area

with PPE. Stop or reduce leak if safe to do so.

Environmental Precautions Do not contaminate water. Do not flush into surface of water.

Methods and Materials for Containment and Cleaning Up

Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. AFTER CLEANING, flush away traces with wate.

Section 07 - Handling and Storage

Precautions for Safe HandlingUse proper equipment for lifting and transporting all containers. Use sensible industrial

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all

situations that could lead to harmful exposure.

Conditions for Safe Storage Keep in a dry, cool place (0-30°C). Keep away from heat and sources of ignition. Freezing

will affect the physical condition and may damage the material.

Incompatibilities None.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component Regulation Type of Listing Value

Floquat FL4540 Not Available

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other Emergency shower and eyewash must be available and tested in accordance with

regulations and be in close proximity.

Protective Equipment

Eyes/Face No specific requirements, but it is good practice to wear chemical safety glasses.

Hand Protection No specific requirements, but it is good practice to prevent skin contact by wearing

impervious gloves of chemical resistance.

Skin and Body ProtectionNo specific requirements, but it is good practice to prevent skin contact by wearing body

suits, aprons and/or coveralls.

No special footwear is required other than what is mandated at place of work.

Respiratory Protection In case of insufficient ventilation, we suitable respiratory equipment. Respiratory

protection is normally not needed.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Liquid

Colour Clear to Amber

Odour Odourless

Odour Threshold Not Applicable

Property

pH 3-7

Melting Point/Freezing Point <0°C

Initial Boiling Point and Boiling

Range

>100°C

Flash Point Does not flash.

Evaporation Rate Not Available

Flammability Non-flammable

Upper Flammable Limit Not Available

Lower Flammable Limit Not Available

Vapour Pressure (mm Hg, 20°C) 2.3 kPa @20°C

Vapour Density (Air=1) Not Available

Relative Density Not Available

Solubility(ies) Completely miscible in water.

Partition Coefficient: n-

octanol/water

Not Available

Auto-ignition Temperature Does not ignite.

Decomposition Temperature Not Available

Viscosity Not Available

Explosive Properties Not Available

Specific Gravity (Water=1) 1.1-1.2

% Volatiles by Volume Not Available

Formula Not Available

Molecular Weight Not Available

Section 10 - Stability and Reactivity

Reactivity Not Available

Stability Stable.

Possibility of

Hazardous Reactions

Polymerization will not occur.

Conditions to Avoid Extremes of temperatures. Protect from light, moisture and damage.

Incompatible Materials None.

Hazardous Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO_x),

Decomposition Products carbon oxides (CO_x), hydrogen cyanide.

Section 11 - Toxicological Information

Acute Toxicity

ComponentOral LD50Dermal LD50Inhalation LC50Floquat FL4540>5000mg/kg (rat)>5000mg/kg (rat)Not Available

Chronic Toxicity - Carcinogenicity

Component IARC

Floquat FL4540 None of the components present in this material at

concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

Skin Corrosion/Irritation May cause skin irritation with susceptible persons.

IngestionNot expected to be toxic by ingestion.InhalationNot expected to be toxic by inhalation.

Serious Eye Damage/Irritation May cause slight temporary eye irritation with susceptible persons.

Respiratory or Skin Sensitization Not sensitizing.

Germ Cell Mutagenicity Not mutagenic.

Reproductive Toxicity Not toxic for reproduction.

STOT-Single Exposure

STOT-Repeated Exposure

Aspiration Hazard

Not Available

Not Available

Synergistic Materials

Not Available

Section 12 - Ecological Information

Ecotoxicity

Component Toxicity to Algae Toxicity to Fish Toxicity to Daphnia and Other Aquatic Invertebrates

Poly(diallyldimethylammonium Not Available Not Available LC₅₀(Daphnia magna, 48hr): 0.32mg/L

Biodegradability Not readily biodegradable.

Bioaccumulation Does not bioaccumulate.

Mobility Not Available

Other Adverse Effects Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused

Products

Dispose in accordance with all federal, provincial, and/or local regulations including

the Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including

the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number Not Regulated

UN Proper Shipping Name Not Regulated

Transport Hazard Class(es) Not Regulated

Packaging Group Not Regulated

Environmental Hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

TDG

Other Secure containers (full and/or empty) with suitable hold down devises during shipment and

ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date September 25, 2018

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.