

Material Safety

Data Sheet

POLYMER OF DIALLYLDIMETHYLAMMONIUM CHLORIDE

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PRODUCT AND COMPANY DESCRIPTION

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1. Chemical Name or Synonym:

CATIONIC POLYMER FLOCCULANT

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	OSHA Hazard	Percentage
CATIONIC POLYMER FLOCCULANT	26062-79-3	N	40%

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:

colorless viscous liquid, slight odor.

Warning Statements:

Based on currently available data, this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling it.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:

Non-irritating. May cause irritation, on prolonged contact.

Acute Skin:

Skin absorption not likely. Non-irritating. May cause irritation, on prolonged contact.

Acute Inhalation:

Inhalation not likely. Mists may cause upper respiratory tract irritation.

Acute Ingestion:

Low acute oral toxicity. May cause nausea.

Chronic Effects:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure:

In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

Inhalation:

If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion:

No harmful effects expected. If appreciable quantities are swallowed, call a physician or poison control center. Do not leave victim unattended.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

No specific information found. Skin contact may aggravate existing skin disease.

NOTES TO PHYSICIAN:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point:

> 93 C (200 F). Flammability Class: WILL BURN.

Method Used:

Pensky-Martens Closed Cup

Flammability Limits (vol/vol%):	Lower:	Upper:
	No Data	No Data

Extinguishing Media:

Not combustible. Use extinguishing method suitable for surrounding fire.

Recommended: dry chemical, foam, water spray, carbon dioxide.

Special Fire Fighting Procedures:

Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards:

Not combustible. When water has evaporated, the residue will burn.

Hazardous Decomposition Materials (Under Fire Conditions):

oxides of nitrogen oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety:

CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard.

Containment of Spill:

Dike area to prevent runoff.

Cleanup and Disposal of Spill:

Pump any free liquid into an appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water.

Environmental and Regulatory Reporting:

Do not flush to drain.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures:

Not Available

Handling:

Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes.

Storage:

Store in closed containers. Store in an area that is clean, well-ventilated, away from ignition sources, away from incompatible materials (see Section 10. Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Guidelines:

No exposure limits were found for this product or any of its ingredients.

Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.

Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin Protection:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

(1)	Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
(2)	Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
(3)	Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Physical Appearance: colorless viscous liquid.

Odor: slight odor.

pH: 4.0 to 7.0

Specific Gravity: 1.04 g/cm³.

Water Solubility: soluble

Melting Point Range: Not Available

Boiling Point Range: 100 C (212 F) at 760 mmHg

Vapor Pressure: < 23.5 mmHg at 25 C (77 F)

Vapor Density: Not Available

Percent Volatiles by Volume: < 61

10. STABILITY AND REACTIVITY

Chemical Stability:

This material is stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:

heat
open flame
spark

Materials/Chemicals To Be Avoided:

strong bases
strong oxidizing agents
strong reducing agents

The Following Hazardous Decomposition Products Might Be Expected:

Decomposition Type: thermal

oxides of nitrogen
oxides of carbon

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:

not applicable

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

No test data found for product.

Acute Skin Irritation:

No test data found for product.

Acute Dermal Toxicity:

No test data found for product.

Acute Respiratory Irritation:

No test data found for product.

Acute Inhalation Toxicity:

No test data found for product.

Acute Oral Toxicity:

No test data found for product.

Chronic Toxicity:

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

No additional test data found for product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

No data found for product.

Chemical Fate Information:

No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical additions, processing or otherwise altering this material may make the

waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal:

Rinse containers before disposal. Consult state and local regulations regarding the proper disposal of container.

EPA Hazardous Waste - NO

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation

Shipping Name:

NOT REGULATED

15. REGULATORY INFORMATION

Inventory Status

Inventory	Status	
UNITED STATES (TSCA)	Y	
CANADA (DSL)	Y	
EUROPE (EINECS/ELINCS)	P	
AUSTRALIA (AICS)	Y	
JAPAN (MITI)	Y	
SOUTH KOREA (KECL)	Y	
Y = All ingredients are on the inventory.		
E = All ingredients are on the inventory or exempt from listing.		
P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.		
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.		

FEDERAL REGULATIONS

Inventory Issues:

All functional components of this product are listed on the TSCA Inventory.

SARA Title III Hazard Classes:

Fire Hazard	- NO
Reactive Hazard	- NO
Release of Pressure	- NO

Acute Health Hazard	- NO
Chronic Health Hazard	- NO

STATE REGULATIONS:

This product does not contain any components that are regulated under California Proposition 65.

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings--NFPA(R):

0	Health Hazard Rating--Minimal
1	Flammability Rating--Slight
0	Instability Rating--Minimal

National Paint & Coating Hazardous Materials Identification System--HMIS(R):

0	Health Hazard Rating--Minimal
1	Flammability Rating--Slight
0	Reactivity Rating--Minimal

Reason for Revisions:

Change and/or addition made to Section 5, International Inventory Status, Section 15 Regulatory Review and Update.

Disclaimer:

The information herein is given in good faith but no warranty, expressed or implied, is made.

**** End of MSDS Document ****