

**MATERIAL SAFETY DATA SHEET**

**I - PRODUCT IDENTIFICATION**

Product: Clarifier

**II - TRANSPORTATION DATA**

U.S. Department of Transportation - 49 CFR

Emergency Telephone Number: Chemtrec 800-424-9300

**III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<u>Chemical or Common Name</u>	<u>Percent</u>	<u>CAS Number</u>
Proprietary polyquaternary amine blend	40.0-41.5%	42751-79-1 26062-79-3

**IV - PHYSICAL/CHEMICAL CHARACTERISTICS**

Odor: characteristic odor  
Viscosity: 2000 cps  
Appearance: clear, light amber-colored liquid  
Total acidity: 5.0-8.0  
Melting Point: -5°C  
Solubility in Water: completely soluble  
Specific Gravity (H<sub>2</sub>O=1): 1.09+/-0.01  
Boiling Point (@ 760 mm Hg): 100°C (212°F)

**V - FIRE AND EXPLOSION HAZARD DATA**

Flash Point:  
Greater than 200°F (SFCC)  
Flammable Limits  
LEL: N/A  
UEL: N/A  
Extinguishing Media:  
Carbon dioxide, dry chemical  
Special Fire-fighting Procedures:  
A self-contained breathing apparatus should be worn by fire-fighting personnel.  
Unusual Explosion Hazards:  
None

## **VI - REACTIVITY DATA**

Stability:

Unstable                       Stable

Conditions to Avoid:

None

Incompatibility (Materials to Avoid):

Strong oxidizers, iron, mild steel, copper alloys or aluminum

Hazardous Decomposition or By-Products:

Oxides of nitrogen, carbon dioxide and/or carbon monoxide, and hydrogen chloride may be formed in a fire.

Hazardous Polymerization:

May Occur                       Will Not Occur

## **VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps To Be Taken In Case Material Is Spilled Or Released:

Large Spills:                      Avoid runoff into storm sewers and surface waterways.

Small Spills:                      Dike and absorb spill with inert materials such as sand or sweeping compound.

Product Disposal:                Dispose of waste material in accordance with federal, state, local or other applicable laws and regulations.

Container Disposal:                Empty containers should not be reused until commercially cleaned.

Waste Disposal Method:

Dispose of in approved landfill according to federal, state, and local regulations.

Precautions to Be Taken in Handling and Storage:

Keep container closed when not in use.

Do not allow to freeze.

Other Precautions:

The information in this Material Safety Data Sheet reflects the latest information and data that is available concerning the hazards, application, and handling of this product under the recommended conditions of use. Any use of the product or method of application which is not described in the Product Data Sheet or this MSDS is the responsibility of the user.

## **VIII - HEALTH HAZARD DATA**

Primary Route(s) of Entry:

Ingestion:                     

Inhalation:                     

Skin Contact:                     

Eye Contact:                     

Primary Health Hazards:

Raw materials are not listed in NIOSH's Registry of Toxic Effects, 1981-2. No known toxicity information is available at this time.

**Carcinogenicity:**

No data available

**Signs & Symptoms of Exposure:**

Eye Contact: Prolonged eye contact may cause irritation.

Skin Contact: Prolonged skin contact may cause irritation.

Inhalation: No known adverse effects.

Ingestion: Product is not expected to be harmful by ingestion.

**Emergency and First Aid Procedures:**

Ingestion: If swallowed, do not induce vomiting. Give victim a glass of water. Consult a physician.

Inhalation: Not expected to be harmful. Remove patient to fresh air environment.

Skin Contact: Immediately flush with soap and water for at least 15 minutes.

Eye Contact: immediately flush with water for at least 15 minutes with eyelids open. Consult a physician.

## **IX - CONTROL MEASURES**

**Exposure Control/Personal Protection:**

Respiratory: none required when ventilation is acceptable.

Ventilation: work area should be well ventilated.

Skin: protective gloves of impervious rubber

Eye: chemical splash goggles

Other: eye wash fountains and safety showers are recommended

Hygienic: eye wash fountains and safety showers in the work area are strongly recommended.

## **XI - ADDITIONAL INFORMATION**

**ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.**

International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

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