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MATERIAL SAFETY DATA SHEET

- Product name: POLY EPI AMINE**
CAS NO.: 27308-78-7
Chemical Formula: $(C_4H_{12}NO-Cl)_n$
HS Code: 39119 00090
OSHA Exposure Limits: None
ACGIH Exposure Limits: None
Weight(%): 20-70
- Hazards Identification**

Emergency Overview: May cause irritation with prolonged contact. Do not get in eyes, on skin, on clothing. Do not take internally. Wear suitable protective clothing. Keep container tightly closed. Flush affected area with water. May evolve oxides of carbon (COX) under fire conditions. May evolve oxides of nitrogen (NOX) under fire condition.

Principle Routes of Exposure: Eye, Skin

Inhalation: Not a likely route of exposure. No adverse effects expected.

Ingestion: Not a likely route of exposure. No adverse effects expected.

Skin Contact: No adverse effects expected.

Eye Contact: No adverse effects expected.

Statements of Hazard: May cause acute.

Human Health Hazards Chronic: No adverse effects expected other than those mentioned above.
- First Aid Measures**

General Information: Based on the individual reactions of the patient, the physician's judgment should be used to

Eye Contact: In the case of contact with eyes, rinse opened eye for several minutes under running water.

Skin Contact: In case of contact, immediately wash skin with plenty of water and rinse thoroughly. If

Inhalation: If inhaled, move to fresh air or artificial respiration if needed. Get medical attention

Ingestion: Do not induce vomiting without medical advice. If conscious, washout mouth and give water
- Fire and Explosion Data**

Suitable Extinguishing Media: This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

Fire & Explosion Hazards: May evolve oxides of carbon (COX) under fire conditions. May evolve oxides of nitrogen (NOX) under fire conditions.

Special Protective Equipment: In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

For Fire Fighting Sensitivity To Mechanical Impact: Not expected to be sensitive to mechanical impact.

Sensitivity To Static Discharge: Not expected to be sensitive to static discharge.

Flash Point: None

Lower Explosion Limit: Not flammable.

Upper Explosion Limit: Not flammable.

NFPA Rating: NFPA Health: 0 NFPA Flammability: 0 NFPA Reactivity: 0

5 Accidental Release Measures

Personal Precautions Do not touch spilled material. Use personal protective equipment recommended in Section 8(Exposure Controls/ Personal Protection).

Environmental Precautions Do not contaminate surface water.

Methods For Cleaning Up Small Spills: Flush to drain or sewer with excess water.

6 Handling and Storage

Storage Store the containers tightly closed.

Handling Avoid eye and skin contact. Do not take internal. Ensure all containers are labelled. Keep the

Suitable Construction Material Compatibility with plastic materials can vary. We therefore recommend that compatibility is tested prior to use.

7 Exposure Controls/ Personal Protection

Occupational Exposure Limits: This product does not contain any substance that has an established exposure limit.

Engineering Measures: General ventilation is recommended.

Respiratory Protection: Respiratory protection is not normally needed.

Hand Protection: Pvc gloves, Neoprene gloves, Nitrile gloves, Butyl gloves.

Skin and Body Protection: Wear standard protective clothing.

Eye Protection: Safety glasses with side-shields

Hygiene Measures: Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

Personal Protective Equipment

8 Physical and Chemical Properties

Appearance and Color	Colorless	PH (100%)	4.0 – 7.0
Odor Threshold	Not available.	Physical State	Liquid
Boiling Point	Not available.	Odor	None
Melting Point	0°C	Vapor Density	Same as water
Flashing Point	Not available.	Vapor Pressure	Same as water.
Solubility in Water	Complete	Evaporation Rate	Same as water.

9 Stability and Reactivity Data

Stability Stable under normal conditions.

Polymerization: None under normal processing.

Hazardous Decomposition: Under fire conditions: Oxides of carbon, Oxides of nitrogen.

Products Material to Avoid: None known.

Conditions to Avoid: Freezing temperatures.

10 Toxicological Information

Product Information No toxicity studies have been conducted on this product.

Sensitization This product is not expected to be a sensitizer.

Chronic Toxicity: None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).
 Teratogenicity & Embryotoxicity: Not available.
 Primary Irritation: Not available.
 Carcinogenic Effects: Not available.
 Mutagenic Effects: Not available.
 Reproductive Toxicity: Not available.
 Other Toxicity Information: Toxicologically Synergistic Products: None

11 Ecological Information

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Mobility

Air	Water	Soil/Sediment
<5%	30 – 50%	50 – 70%

Bioaccumulation Potential

The portion in water is expected to be soluble or dispersible.
 This preparation or material is not expected to bioaccumulate.

12 Disposal Considerations

Waste from Residues/
 Unused Products

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Do not dispose of wastes in local sewer or with normal garbage.

13 Transport Information

IMO IMDG Code

US DOT Classification

Canada TDG

Proper Shipping Name: Not regulated as a hazardous material.
 Hazard Class: Not available.
 Packing Group: Not available.
 UN Number: Not available.
 Proper Shipping Name: Not regulated as a hazardous material.
 Hazard Class: Not available.
 Packing Group: Not available.
 UN Number: Not available.
 Proper Shipping Name: Not regulated as a hazardous material.
 Hazard Class: Not available.
 Packing Group: Not available.
 UN Number: Not available.

14 Other Regulatory Information and Pictograms

National Regulations,
 Canada

National Regulations,
 USA

Workplace Hazardous Materials Information System (WHMIS): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
 WHMIS Classification: Not considered a WHMIS controlled product.
 Canadian Environmental Protection ACT (CEPA): The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).
 National Pollutant Release Inventory (NPRI): This product does not contain any substances listed in Schedule I of the NPRI at a concentration of one percent or more by weight.
 Toxic Substances Control ACT (TSCA): The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).

15 **Other Information**

Prepared by Environment Health & Safety Department
References Not available.
Other Special
Considerations Not available.

Notice to Reader :

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other material, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. If shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable **VM CHEMICAL INDUSTRY CO.,LTD.** assumes no responsibility for the completeness or accuracy of the information contained herein.*