

SECTION 1 Identification

1.1. Product identifier

| | |
|---------------|--|
| Product form | : Substance |
| Trade name | : POLY-Q® 40-480 |
| Chemical name | : 1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE |
| IUPAC name | : Ethylenediamine, propoxylated |
| CAS-No. | : 25214-63-5 |
| Formula | : (C3H6O.C2H8N2)x |

1.2. Other means of identification

| | |
|----------|--|
| Synonyms | : Ethylenediamine, propoxylated / Polymer, 1,2-ethanediamine with methyloxirane / 1,2-Ethanediamine, polymer with 2-methyloxirane / Ethanediamine, polymer with methyloxirane, 1,2- / Sucrose amine polyether polyol |
| EC-No. | : 500-035-6 |

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Monument Chemical
2450 Olin Road
Brandenburg, KY, 40108
USA
T (270)422-6860
sds@monumentchemical.com - www.monumentchemical.com

1.5. Emergency phone number

| | |
|------------------|--|
| Emergency number | : 24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency Assistance: 1-270-422-6860 |
|------------------|--|

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|--|------|--------------------------------|
| Serious eye damage/eye irritation, Category 2A | H319 | Causes serious eye irritation. |
| Full text of H statements : see section 16 | | |

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



| | |
|-----------------------------------|---|
| Signal word (GHS US) | : Warning |
| Hazard statements (GHS US) | : H319 - Causes serious eye irritation |
| Precautionary statements (GHS US) | : P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove |

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contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice or attention.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Substance type : UVCB

| Name | Product identifier | % |
|--|---------------------|----------|
| 1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (Main constituent) | CAS-No.: 25214-63-5 | 99 – 100 |

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Consult an eye specialist. Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms/effects, acute and delayed

| | |
|---|---|
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

See Heading 8, Exposure controls and personal protection

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

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SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

| |
|------------------------------------|
| Hand protection: |
| Wear protective gloves. |
| Eye protection: |
| Chemical goggles or safety glasses |
| Respiratory protection: |
| Wear appropriate mask |

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : Colorless to pale yellow liquid. |
| Color | : Colourless to yellow |
| Odor | : mild |
| Odor threshold | : No data available |
| pH | : 10 – 13 (@ 25 Deg. C) 10/6 Isopropanol / water |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 320.6 °C Decomposition: 'no' |
| Flash point | : > 193 °C (Open cup) |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : < 1 mm Hg (@ 25 Deg. C) |
| Relative vapor density at 20°C | : No data available |
| Relative density | : 1 – 1.1 |
| Density | : 1 – 1.1 g/ml |
| Molecular mass | : ~ 470 g/mol |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Explosion limits | : No data available |

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Particle characteristics : No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| 1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5) | |
|---|---|
| LD50 oral rat | 2 – 5 g/kg |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LD50 dermal rabbit | > 2000 mg/kg |
| ATE US (oral) | 2000 mg/kg body weight |

Skin corrosion/irritation : Not classified
pH: 10 – 13 (@ 25 Deg. C) 10/6 Isopropanol / water

Serious eye damage/irritation : Causes serious eye irritation.
pH: 10 – 13 (@ 25 Deg. C) 10/6 Isopropanol / water

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)

| | |
|----------------------------|---|
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
|----------------------------|---|

Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/effects after eye contact : Causes serious eye irritation.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)

| | |
|----------------------|--|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 72h - Algae [1] | 150.67 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| LOEC (chronic) | > 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | ≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

12.2. Persistence and degradability

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No
Other information : Avoid release to the environment.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.

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SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN Proper Shipping Name

| | |
|-----------------------------|-----------------|
| Proper Shipping Name (DOT) | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

| | |
|----------------------|-----------------|
| Packing group (DOT) | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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15.2. International regulations

CANADA

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)

Listed on the EU NLP (No Longer Polymers) inventory

National regulations

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 4/24/2025

Issue date : 4/24/2025

Other information : None.

Full text of hazard classes and H-statements

| | |
|------|-------------------------------|
| H319 | Causes serious eye irritation |
|------|-------------------------------|

Safety Data Sheet (SDS), USA

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