

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 10/10/2020 Revision date: 08/13/2020 Supersedes: 07/20/2018

# **SECTION 1: Identification**

Identification

Product form : Substance Trade name : POLY-Q® 40-56

Chemical name : 1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE

**IUPAC** name : Ethylenediamine, propoxylated

CAS-No. : 25214-63-5 Formula : (C3H6O.C2H8N2)x

Ethylenediamine, propoxylated / Polymer, 1,2-ethanediamine with methyloxirane / 1,2-Synonyms

Ethanediamine, polymer with 2-methyloxirane / Ethanediamine, polymer with methyloxirane,

Version: 1.0

1,2- / Sucrose amine polyether polyol

Recommended use and restrictions on use

Use of the substance/mixture : chemical intermediate for urethane polymer production

Supplier

Monument Chemical 2450 Olin Road Brandenburg, KY 40108 - USA

T (270)422-6860

sds@monumentchemical.com - www.monumentchemical.com

1.4. **Emergency telephone number** 

: 24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency **Emergency number** 

Assistance: 1-270-422-6860

## **SECTION 2: Hazard(s) identification**

# Classification of the substance or mixture

**GHS US classification** 

Serious eye damage/eye H319 irritation Category 2

Causes serious eye irritation

Full text of H statements: see section 16

# GHS Label elements, including precautionary statements

**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.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

## Other hazards which do not result in classification

No additional information available

**Unknown acute toxicity (GHS US)** 

Not applicable

## **SECTION 3: Composition/Information on ingredients**

**Substances** 3.1.

Substance type : UVCB

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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 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 : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Wash skin with plenty of water, Consult a doctor/medical service on this label).

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### **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

#### 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

### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material 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.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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#### 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 thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Ignition sources,

Incompatible materials. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

No additional information available

### 8.2. Appropriate engineering controls

## 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on 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 : 8 – 11 (@ 25 Deg. C)
Melting point : No data available
Freezing point : No data available

Boiling point : 320.6 °C Decomposition: 'no'

Flash point : > 204 °C (Open cup)
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Non flammable.

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Vapor pressure : < 1 mm Hg (@ 25 Deg. C)

Relative vapor density at 20 °C : No data available

Relative density : 1.01 – 1.015 (@ 25 Deg. C)

Molecular mass : ~ 4000 g/mol Solubility : Insoluble in water. 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 Viscosity, dynamic : No data available **Explosion limits** No data available Explosive properties : No data available : No data available Oxidizing properties

#### 9.2. Other information

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 ME	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: 8 – 11 (@ 25 Deg. C)

Serious eye damage/irritation : Causes serious eye irritation.

pH: 8 - 11 (@ 25 Deg. C)

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

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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
Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes eye irritation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

1,2-ETHYLENEDIAMINE, POLYMER WITH ME	THYL-OXIRANE (25214-63-5)
LC50 fish 1	> 100 mg/l
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)		THYL-OXIRANE (25214-63-5)
	Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

1,2-ETHYLENEDIAMINE, POLYMER WITH METHYL-OXIRANE (25214-63-5)		THYL-OXIRANE (25214-63-5)
	Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

# Transport by sea

Not regulated

## Air transport

Not regulated

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#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical

Data Reporting Rule, (40 CFR 711).

All components of this product are listed, or excluded from listing, 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.

#### 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 on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US 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**

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Revision date : 08/13/2020 Other information : None.

#### Full text of H-phrases:

H319 Causes serious eye irritation

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause

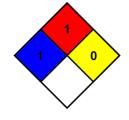
significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can

occur

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



#### SDS US (GHS HazCom 2012)

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