

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: 04/14/2015 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : POLY-Q® 43-455

Chemical name : ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE

CAS-No. : 26316-40-5

Formula : (C3H6O.C2H8N2.C2H4O)x

Synonyms : Ethylenediamine, ethoxylated and propoxylated / Polymer, 1,2-ethanediamine with

methyloxirane and oxirane / 1,2-Ethanediamine, polymer with 2-methyloxirane and oxirane / Ethylene oxide-propylene oxide copolymer ethylenediamine ether / Ethylene oxide-propylene oxide copolymer ether with ethylenediamine / Polypropylene-ethylene oxide condensate of

ethylenediamine

1.2. Recommended use and restrictions on use

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

1.3. 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

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(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2A Skin sensitization,

H317

H319

Causes serious eye irritation

May cause an allergic skin reaction

Category 1

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P261 - Avoid breathing fume, spray, vapors.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear eye protection, protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of water.

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

contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see a doctor on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%
ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (Main constituent)	(CAS-No.) 26316-40-5	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 : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Gently wash with plenty of soap and water, Get medical advice/attention. Get medical advice/attention. Specific treatment (see Consult a doctor/medical service, Wash skin with

plenty of water on this label). Wash contaminated clothing before reuse.

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 and effects (acute and delayed)

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects after inhalation : May cause an allergic skin reaction.
Symptoms/effects after eye contact : Causes serious 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.

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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.

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. Avoid breathing fume, spray, vapors.

Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out

of the workplace. Wash contaminated clothing before reuse.

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

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)

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

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 : mile

Odor threshold : No data available pH : 10 – 11.9 (@ 25 Deg. C)

Melting point : No data available

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Freezing point : No data available
Boiling point : No data available

Flash point : 252 °C

Relative evaporation rate (butyl acetate=1) : No data available 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 Specific gravity / density : 1 - 1.1 g/ml Molecular mass : ~ 500 g/mol Solubility Insoluble in water. Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic **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

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)	
LD50 oral rat	3 – 5 g/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE US (oral)	3000 mg/kg body weight

Skin corrosion/irritation : Not classified

pH: 10 – 11.9 (@ 25 Deg. C)

Serious eye damage/irritation : Causes serious eye irritation.

pH: 10 - 11.9 (@ 25 Deg. C)

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

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Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
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 inhalation : May cause an allergic skin reaction. Symptoms/effects after eye contact : Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)		EDIAMINE (26316-40-5)
	I C50 fish 1	> 100 mg/l

12.2. Persistence and degradability

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)	
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. Dispose of

contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

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

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)

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

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)

Listed on the EU NLP (No Longer Polymers) inventory

National regulations

ETHOXYLATED, PROPOXYLATED ETHYLENEDIAMINE (26316-40-5)

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 INSQ (Mexican National Inventory of 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:

H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

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