

Safety Data Sheet

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

Issue date: 04/08/2021 Supersedes: 11/29/1999 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : Poly(ethylene oxide) [MW 5,000,000]

Product code : 04031 Formula : (CH2CH2O)x

1.2. Recommended use and restrictions on use

Recommended use : Use as laboratory reagent, Manufacture of substances

1.3. Supplier

Supplier

Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency phone number ChemTel 1-800-255-3924

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2A Causes serious eye irritation

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : Causes serious eye irritation

Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention

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

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Polyethylene glycol	(CAS-No.) 25322-68-3	91 – 100	STOT SE 3, H335

11/13/2023 EN (English US) Page 1

Safety Data Sheet

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

Name	Product identifier	%	GHS US classification
Ammonia	(CAS-No.) 7664-41-7	0 – 5	Flam. Gas 2, H221 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400
Ethylene oxide	(CAS-No.) 75-21-8	0-5	Flam. Gas 1, H220 Press. Gas (Liq.), H280 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 3, H402
Ethylamine	(CAS-No.) 75-04-7	0 – 5	Acute Tox. 4 (Inhalation:gas), H332 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 3, H402

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

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: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

11/13/2023 EN (English US) 2/10

Safety Data Sheet

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

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact

with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temp. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available Ammonia (7664-41-7) USA - ACGIH - Occupational Exposure Limits Local name ACGIH TWA (ppm) 25 ppm ACGIH STEL (ppm) 35 ppm Remark (ACGIH) TLV® Basis: Eye dam; URT irr Regulatory reference ACGIH 2020 USA - OSHA - Occupational Exposure Limits Local name Ammonia OSHA PEL (TWA) (mg/m³) 35 mg/m³ OSHA PEL (TWA) (ppm) 50 ppm Regulatory reference (US-OSHA) OSHA Annotated Table Z-1 USA - IDLH - Occupational Exposure Limits US IDLH (ppm) 300 ppm USA - NIOSH - Occupational Exposure Limits NIOSH REL (TWA) (mg/m³) 18 mg/m³ NIOSH REL (TWA) [ppm] 25 ppm			
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NIOSH REL (TWA) (mg/m³) 18 mg/m³ NIOSH REL TWA [ppm] 25 ppm			
NIOSH REL TWA [ppm] 25 ppm			
NIOSH REL (STEL) (mg/m³) 27 mg/m³			
NIOSH REL STEL [ppm] 35 ppm			
Ethylene oxide (75-21-8)			
USA - ACGIH - Occupational Exposure Limits			
Local name Ethylene oxide			
ACGIH TWA (ppm) 1 ppm			
Remark (ACGIH) TLV® Basis: Cancer; CNS impair. Notations: A2 (Suspected Human Carcinoger	1)		
ACGIH chemical category Suspected Human Carcinogen			
Regulatory reference ACGIH 2020			
USA - ACGIH - Biological Exposure Indices			
Local name ETHYLENE OXIDE			
Biological Exposure Indices (BEI) 5000 pmol/g Globin Parameter: N-(2-hydroxyethyl)valine (HEV) - Medium: hemo adducts - Sampling time: Not critical - Notations: Ns 5 μg/g Kreatinin Parameter: S-(2-hydroxyethyl)mercapturic acid (HEMA) - Mediu urine - Sampling time: End of shift - Notations: Pop, Ns	•		
ACGIH remark (BEI) The value of HEV hemoglobin adducts applies to workers having representative Ethylene oxide exposure during the previous 120 days			
Regulatory reference ACGIH 2020			
USA - OSHA - Occupational Exposure Limits			
OSHA PEL (TWA) (ppm) 1 ppm			
OSHA PEL (STEL) (ppm) 5 ppm (see 29 CFR 1910.1047)			

11/13/2023 EN (English US) 3/10

Safety Data Sheet

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

USA - IDLH - Occupational Exposure Limits		
US IDLH (ppm)	800 ppm	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA) (mg/m³)	0.18 mg/m³ (less than stated value)	
NIOSH REL TWA [ppm]	0.1 ppm (less than stated value)	
NIOSH REL (ceiling) (mg/m³)	9 mg/m³	
NIOSH REL C [ppm]	5 ppm	
Ethylamine (75-04-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Ethylamine	
ACGIH TWA (ppm)	5 ppm	
ACGIH STEL (ppm)	15 ppm	
Remark (ACGIH)	TLV® Basis: URT irr. Notations: Skin	
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route	
Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Limits		
Local name	Ethylamine	
OSHA PEL (TWA) (mg/m³)	18 mg/m³	
OSHA PEL (TWA) (ppm)	10 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
USA - IDLH - Occupational Exposure Limits		
US IDLH (ppm)	600 ppm	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA) (mg/m³)	18 mg/m³	
NIOSH REL TWA [ppm]	10 ppm	
Polyethylene glycol (25322-68-3)		
USA - AIHA - Occupational Exposure Limits		
WEEL TWA (mg/m³)	10 mg/m³ (MW>200-aerosol)	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



11/13/2023 EN (English US) 4/10

Safety Data Sheet

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : White powder.

Color : Mixture contains one or more component(s) which have the following colour(s):

Colorless

Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

sharp intensely irritating ammonia-like

Odor threshold : No data available pH : No data available

Melting point : 143

Freezing point : Not applicable
Boiling point : no data
Flash point : no data

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : no data Relative vapor density at 20°C : no data

Relative density : No data available Solubility : No data available : No data available Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Not applicable Decomposition temperature : No data available Viscosity, kinematic · No data available No data available Viscosity, dynamic **Explosion limits** : Not applicable 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

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

11/13/2023 EN (English US) 5/10

Safety Data Sheet

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

Poly(ethylene oxide) [MW 5,000,000]	
LD50 oral rat	> ≥ 4 μg/kg g/Kg
ATE US (oral)	0.004 mg/kg body weight
Ammonia (7664-41-7)	
LD50 oral rat	350 mg/kg
LC50 Inhalation - Rat [ppm]	2000 ppm/4h
Ethylene oxide (75-21-8)	
LD50 oral rat	72 mg/kg
LC50 Inhalation - Rat [ppm]	800 ppm/4h
Ethylamine (75-04-7)	
LD50 oral rat	400 mg/kg
LD50 dermal rabbit	390 mg/kg
LC50 Inhalation - Rat [ppm]	5540 ppm/1h
Polyethylene glycol (25322-68-3)	
LD50 oral rat	22 g/kg
LD50 dermal rabbit	> 20 g/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Ethylene oxide (75-21-8)	
IARC group	1 - Carcinogenic to humans

Ethylene oxide (75-21-8)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list	Yes
In OSHA Specifically Regulated Carcinogen list	Yes

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

Ethylene oxide (75-21-8)	
STOT-single exposure	May cause respiratory irritation.
Ethylamine (75-04-7)	
STOT-single exposure	May cause respiratory irritation.
Polyethylene glycol (25322-68-3)	
STOT-single exposure	May cause respiratory irritation.
CTOT reported expensive . Not described	

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

EC50 Daphnia 1

12.	.1. Toxicity	
Е	cology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
	Ammonia (7664-41-7)	
	LC50 fish 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)

LC50 fish 2	0.26 – 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)	
LC50 fich 2	0.26 - 4.6 mg/l (Exposure time: 96 h - Species: Lenomis macrochirus)	

25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)

11/13/2023 EN (English US) 6/10

Safety Data Sheet

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

Ethylene oxide (75-21-8)	
LC50 fish 1	73 – 96 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	137 – 300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Ethylamine (75-04-7)	
LC50 fish 1	≈ 46 mg/l Test organisms (species): Leuciscus idus
LC50 fish 2	> 500 mg/l Test organisms (species): Leuciscus idus
LOEC (chronic)	6.1 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	3.2 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Ammonia (7664-41-7)	
Partition coefficient n-octanol/water (Log Pow)	-1.14 (at 25 °C)
Ethylene oxide (75-21-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.3 (at 25 °C)
Ethylamine (75-04-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.27

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

11/13/2023 EN (English US) 7/10

Safety Data Sheet

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

Ammonia (7664-41-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	100 lb	
Section 302 EPCRA Reportable Quantity (RQ)	100 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb	
Ethylene oxide (75-21-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ	10 lb	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb	
Section 302 EPCRA Reportable Quantity (RQ)	10 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb	
Ethylamine (75-04-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	100 lb	
Polyethylene glycol (25322-68-3)		
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).	

15.2. International regulations

CANADA

Ammonia (7664-41-7)		
sted on the Canadian DSL (Domestic Substances List)		
Toxic Substance (CEPA – Schedule I)	Yes	
Ethylene oxide (75-21-8)		
Listed on the Canadian DSL (Domestic Substances List)		
Toxic Substance (CEPA – Schedule I)	Yes	
Ethylamine (75-04-7)		
Listed on the Canadian DSL (Domestic Substances List)		
Polyethylene glycol (25322-68-3)		
Listed on the Canadian DSL (Domestic Substances List)		

EU-Regulations

Ammonia (7664-41-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Ethylene oxide (75-21-8)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Ethylamine (75-04-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Polyethylene glycol (25322-68-3)	
Listed on the EU NLP (No Longer Polymers) inventory	

National regulations

11/13/2023 EN (English US) 8/10

Safety Data Sheet

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

Ammonia (7664-41-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

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)

Japanese Poisonous and Deleterious Substances Control Law

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Ethylene oxide (75-21-8)

Listed on IARC (International Agency for Research on Cancer)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

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)

Japanese Poisonous and Deleterious Substances Control Law

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Ethylamine (75-04-7)

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Listed on the TCSI (Taiwan Chemical Substance Inventory)

Polyethylene glycol (25322-68-3)

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Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Ethylene oxide	rlene oxide (75-21-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	Yes	Yes	Yes	2 μg/day	20 μg/day

Component	State or local regulations
Ammonia(7664-41-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) List

11/13/2023 EN (English US) 9/10

Safety Data Sheet

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

Component	State or local regulations
Ethylene oxide(75-21-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances; U.S Pennsylvania - RTK (Right to Know) List
Ethylamine(75-04-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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

SDS US (GHS HazCom 2012)

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11/13/2023 EN (English US) 10/10