

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/08/2023 Supersedes: 12/23/1998 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture		
Trade name	: Poly(ethylene glycol) [MW ~ 20,0	00]	
Product code	: 17172	-	
Formula	: (C2H4O)nH2O		
.2. Recommended use and re	strictions on use		
Recommended use	: Use as laboratory reagent, Manu	facture of substance	es
I.3. Supplier			
Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United State T +1 215 343 6484 - F +1 215 343 02 info@polysciences.com - www.polysciences.com	214		
1.4. Emergency telephone num	iber		
Emergency number	: 24-hour emergency phone numb	er ChemTel 1-800-2	255-3924
SECTION 2: Hazard(s) identif	fication		
2.1. Classification of the subst			
GHS US classification			
Not classified			
2.2. GHS Label elements, inclu	ding precautionary statements		
GHS US labeling			
No labeling applicable			
2.3. Other hazards which do no	t result in classification		
No additional information available			
2.4. Unknown acute toxicity (G	HS (1S)		
Not applicable			
SECTION 3: Composition/Inf	ormation on ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name	Product identifier	%	GHS US classification
Polyethylene glycol	(CAS-No.) 25322-68-3	95 – 100	STOT SE 3, H335
1,4-dioxane	(CAS-No.) 123-91-1	0-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
Acetaldehyde	(CAS-No.) 75-07-0	0 – 5	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 2, H401

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Name	Product identifier	%	GHS US classification
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, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 3, H402
Formaldehyde	(CAS-No.) 50-00-0	0 – 5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H336 Aquatic Acute 2, H401

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 eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effec	ts (acute and delayed)
No additional information available	
4.3. Immediate medical attention and spe	ecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	ing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the ch	emical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and pr	ecautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>SECTION 6: Accidental release meas</b>	sures
6.1. Personal precautions, protective equ	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
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 containme	nt and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

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6.4.	Reference to other sections	
For furt	her information refer to section 13.	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Preca	utions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygie	ne measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, inclue	ling any incompatibilities
Stora	ge conditions	: Store at 4 deg. C. Store in a well-ventilated place. Keep cool.

SECTI	ON 8: Exposure controls/personal protection
8.1.	Control parameters

Poly(ethylene glycol) [MW ~ 20,000]	
No additional information available	
1,4-dioxane (123-91-1)	
USA - ACGIH - Occupational Exposure L	imits
Local name	1,4-Dioxane
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	TLV® Basis: Liver dam. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route, Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2018
USA - OSHA - Occupational Exposure Lin	mits
Local name	Dioxane (Diethylene dioxide)
OSHA PEL (TWA) (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	100 ppm
Limit value category (OSHA)	prevent or reduce skin absorption
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Lim	nits
US IDLH (ppm)	500 ppm
USA - NIOSH - Occupational Exposure Li	imits
NIOSH REL (ceiling) (mg/m <sup>3</sup> )	3.6 mg/m <sup>3</sup>
NIOSH REL C [ppm]	1 ppm
Acetaldehyde (75-07-0)	
USA - ACGIH - Occupational Exposure L	imits
Local name	Acetaldehyde
ACGIH Ceiling (ppm)	25 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A2 (Suspected Human Carcinogen)
ACGIH chemical category	Suspected Human Carcinogen
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Li	mits
Local name	Acetaldehyde
OSHA PEL (TWA) (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	200 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Lim	lits
US IDLH (ppm)	2000 ppm
Ethylene oxide (75-21-8)	
USA - ACGIH - Occupational Exposure L	imits
Local name	Ethylene oxide
ACGIH TWA (ppm)	1 ppm
Remark (ACGIH)	TLV® Basis: Cancer; CNS impair. Notations: A2 (Suspected Human Carcinogen)

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ACGIH chemical category	Suspected Human Carcinogen
Regulatory reference	ACGIH 2020
USA - ACGIH - Biological Exposure Indi	ces
Local name	ETHYLENE OXIDE
Biological Exposure Indices (BEI)	5000 pmol/g Globin Parameter: N-(2-hydroxyethyl)valine (HEV) - Medium: hemoglobin adducts - Sampling time: Not critical - Notations: Ns 5 μg/g Kreatinin Parameter: S-(2-hydroxyethyl)mercapturic acid (HEMA) - Medium: 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 L	imits
OSHA PEL (TWA) (ppm)	1 ppm
OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1047)
USA - IDLH - Occupational Exposure Lin	nits
US IDLH (ppm)	800 ppm
USA - NIOSH - Occupational Exposure I	imits
NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.18 mg/m <sup>3</sup> (less than stated value)
NIOSH REL TWA [ppm]	0.1 ppm (less than stated value)
NIOSH REL (ceiling) (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>
NIOSH REL C [ppm]	5 ppm
Formaldehyde (50-00-0)	
No additional information available	
Polyethylene glycol (25322-68-3)	
USA - AIHA - Occupational Exposure Li	mits
WEEL TWA (mg/m <sup>3</sup> )	10 mg/m³ (MW>200-aerosol)

#### 8.2. Appropriate engineering controls

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



# SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid

Physical state Appearance

: opaque white solid or colorless liquid.

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Color	<ul> <li>Mixture contains one or more component(s) which have the following colour(s): Colorless</li> </ul>
Odor	<ul> <li>There may be no odour warning properties, odour is subjective and inadequate to warn o overexposure.</li> <li>Mixture contains one or more component(s) which have the following odour: ether-like Fruity</li> </ul>
Odor threshold	: No data available
pH	: No data available
Melting point	: 68
Freezing point	: No data available
Boiling point	: >≥ 392
Flash point	: 375
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: <≤0.01
Relative vapor density at 20°C	: >≥10
Relative density	: No data available
Molecular mass	: 600
Solubility	: Water: 100 %
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
Oxidizing properties	: No data available

#### 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		

effects	
: Not classified	
: Not classified	
: Not classified	
5170 mg/kg	
7600 mg/kg	
	<ul> <li>Not classified</li> <li>Not classified</li> <li>5170 mg/kg</li> </ul>

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Acetaldehyde (75-07-0)	
LD50 oral rat	660 mg/kg
LC50 Inhalation - Rat [ppm]	13000 ppm/4h
Ethylene oxide (75-21-8)	
LD50 oral rat	72 mg/kg
LC50 Inhalation - Rat [ppm]	800 ppm/4h
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	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
1,4-dioxane (123-91-1)	
NOAEL (chronic,oral,animal/male,2 years)	94 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
NOAEL (chronic,oral,animal/female,2 years)	148 mg/kg body weight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes
Acetaldehyde (75-07-0)	
IARC group	2B - Possibly carcinogenic to humans, 1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes
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
Formaldehyde (50-00-0)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
1,4-dioxane (123-91-1)	
STOT-single exposure	May cause respiratory irritation.
Acetaldehyde (75-07-0)	
STOT-single exposure	May cause respiratory irritation.
Ethylene oxide (75-21-8)	1
STOT-single exposure	May cause respiratory irritation.
Formaldehyde (50-00-0)	
STOT-single exposure	May cause drowsiness or dizziness.
Polyethylene glycol (25322-68-3)	
STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure	: Not classified
1,4-dioxane (123-91-1)	
NOAEC (inhalation,rat,vapor,90 days)	> 0.4 mg/l air Animal: rat
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
1,4-dioxane (123-91-1)		
LC50 fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 1	163 mg/l (Exposure time: 48 h - Species: water flea [Static])	
LC50 fish 2	> 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])	
NOEC (chronic)	1000 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	> 103 mg/l Test organisms (species): Pimephales promelas Duration: '32 d'	
Acetaldehyde (75-07-0)		
LC50 fish 1	28.0 – 34.0 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	3.64 – 6.15 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
LC50 fish 2	53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 2	48.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
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)	

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

1,4-dioxane (123-91-1)		
BCF fish 1	0.2 – 0.7	
Partition coefficient n-octanol/water (Log Pow)	-0.42	
Acetaldehyde (75-07-0)		
Partition coefficient n-octanol/water (Log Pow)	0.5	
Ethylene oxide (75-21-8)		
Partition coefficient n-octanol/water (Log Pow)	-0.3 (at 25 °C)	

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

SECT	ON 13: Disposal consideration	ns
13.1.	Disposal methods	
Waste	treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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#### **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

1,4-dioxane (123-91-1)			
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	100 lb		
Acetaldehyde (75-07-0)			
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	1000 lb		
Ethylene oxide (75-21-8)			
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State 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		
Formaldehyde (50-00-0)			
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	100 lb		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb		
Polyethylene glycol (25322-68-3)			
Listed on the United States TSCA (Toxic Substan	nces 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

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1,4-dioxane (123-91-1)	
Listed on the Canadian DSL (Domestic Substances List)	
Acetaldehyde (75-07-0)	
Listed 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
Formaldehyde (50-00-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Polyethylene glycol (25322-68-3)	
Listed on the Canadian DSL (Domestic Substances List)	

#### **EU-Regulations**

Ethylene oxide (75-21-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Polyethylene glycol (25322-68-3)
Listed on the ELLNLP (No. Longer Bolymore) inventory

Listed on the EU NLP (No Longer Polymers) inventory

#### **National regulations**

1,4-dioxane (123-91-1)
Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Acetaldehyde (75-07-0)
Listed as carcinogen on NTP (National Toxicology Program)
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 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 on INSQ (Mexican National Inventory of Chemical Substances) 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)
Formaldehyde (50-00-0)
Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Polyethylene glycol (25322-68-3)
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) Listed on CICR (Turkish Inventory and Control of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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1,4-dioxane (12	3-91-1)				
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	No	No	No	30 µg/day	
Acetaldehyde (	75-07-0)				
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	No	No	No	90 μg/day (inhalation)	
Ethylene 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
Formaldehyde	(50-00-0)				
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	No	No	No	40 µg/day	

Component	State or local regulations
1,4-dioxane(123-91-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Acetaldehyde(75-07-0)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
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
Formaldehyde(50-00-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

#### **SECTION 16: Other information**

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#### SDS US (GHS HazCom 2012)

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