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# SAFETY DATA SHEET

# 1. Identification

Product identifier: 1ST AYD ALL SURFACE CLEANER -6L

Other means of identification

**SDS number:** RE1000025346

Recommended restrictions

Product use: Cleaner

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: 1ST AYD. CORPORATION Address: 1325 GATEWAY DRIVE

ELGIN,IL 60124 847-622-0001

Telephone: Fax:

Emergency telephone number: 1-800-255-3924

# 2. Hazard(s) identification

#### **Hazard Classification**

**Physical Hazards** 

Flammable aerosol Category 1

**Health Hazards** 

Serious Eye Damage/Eye Irritation Category 1

**Environmental Hazards** 

Acute hazards to the aquatic Category 3

environment

### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Extremely flammable aerosol.

Causes serious eye damage.

Harmful to aquatic life.

Precautionary Statements

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**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Do not spray on an open flame or other ignition

source. Do not pierce or burn, even after use. Wear protective

gloves/protective clothing/eye protection/face protection. Avoid release to

the environment.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

a POISON CENTER/doctor.

Storage: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Ethanol, 2-butoxy-	111-76-2	1 - <5%
Alcohols, C9-11, ethoxylated	68439-46-3	3 - <5%
Butane	106-97-8	1 - <5%
Glycine, N,N'-1,2- ethanediylbis[N- (carboxymethyl)-, sodium salt (1:4)	64-02-8	1 - <5%
Propane	74-98-6	0.1 - <1%
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3	0.1 - <1%
Sodium hydroxide (Na(OH))	1310-73-2	0.1 - <1%
Ammonium hydroxide ((NH4)(OH))	1336-21-6	0 - <0.1%
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	76-22-2	0 - <0.1%
Acetic acid, phenylmethyl ester	140-11-4	0 - <0.1%
1,4-Dioxane	123-91-1	0 - <0.1%
Ethylene Oxide	75-21-8	0 - <0.1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

**Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

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#### Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

# 5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a

protected location. Move containers from fire area if you can do so without

risk.

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials. Use

fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire. Do not

use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash

back.

#### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep

upwind.

Methods and material for containment and cleaning

**Notification Procedures:** 

up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you

can do so without risk.

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer.

#### 7. Handling and storage

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Precautions for safe handling: Do not get in eyes. Wash hands thoroughly after handling. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not

pierce or burn, even after use.

Conditions for safe storage, including any

incompatibilities:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding  $50^{\circ}\text{C}$ . Do not pierce or burn, even after use.

Aerosol Level 1

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Lin	nit Values	Source
Ethanol, 2-butoxy-	TWA	20 ppm		US. ACGIH Threshold Limit Values (2008)
·	TWA	25 ppm	120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 ppm	24 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	20 ppm	97 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	25 ppm	120 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL		760 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		3,700 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		2,900 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		600 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	800 ppm	1,900 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (03 2018)
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	AN ESL		3,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL		7,100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA PEL	800 ppm	1,900 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL		66,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL		28,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA PEL	1,000 ppm	1,800 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Sodium hydroxide (Na(OH))	Ceiling		2 mg/m3	US. ACGIH Threshold Limit Values (2008)
South Type State (Track Type	Ceiling		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceil_Time		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling		2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	Ceiling		2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
Sodium hydroxide (Na(OH)) - Particulate.	AN ESL		2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)

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ST ESL					<del>-</del>
Ammonium hydroxide ((INH4)(CH))  STESL  180 µg/m2  US. Texass Effects Screening Lovek (Texas ((INH4)(CH))  STEL  35 ppm  TWA  25 ppm  18 mg/m3  US. ACGIH Threshold Limit Values (2008)  STEL  35 ppm  27 mg/m3  US. ACGIH Threshold Limit Values (2008)  STEL  35 ppm  27 mg/m3  US. ACGIH Threshold Limit Values (2008)  STEL  35 ppm  27 mg/m3  US. ACGIH Threshold Limit Values (2008)  STEL  35 ppm  27 mg/m3  US. ACGIH Threshold Limit Values (2008)  STEL  35 ppm  27 mg/m3  US. ACGIH Threshold Limit Values (2008)  STEL  35 ppm  27 mg/m3  US. NOSH: Pocket Guide to Chemical Hazards  US. NOSH: Pocket Guide to Chemical Hazards  US. ACGIH Threshold Limit Values (2009)  SECONDA		ST ESL		20 μg/m3	US. Texas. Effects Screening Levels (Texas
STEL   150 µg/m3   US. Taxas. Effects Screening Levels (Feas STEL   35 ppm   US. ACGIH Threshold Limit Values (2008)		AN ESL		92 μg/m3	US. Texas. Effects Screening Levels (Texas
STEL   35 ppm		ST ESL		180 μg/m3	US. Texas. Effects Screening Levels (Texas
TWA PEL		STEL	35 ppm		US. ACGIH Threshold Limit Values (2008)
STEL   35 ppm   27 mg/m3   25 callorins Code of Regulations, (Tille 8   5 callorins) (Stel 6 callorins) (St		TWA			US. ACGIH Threshold Limit Values (2008)
STEL   35 ppm   27 mg/m3   US. California Code of Regulations, Title 8, Science 1515, Althorne Contaminants (09 2006)		TWA PEL	25 ppm	18 mg/m3	
STEL   35 ppm   27 mg/m3   US. OSHA Table Z-1-A (29 CFR 1910.1000)		STEL	35 ppm	27 mg/m3	US. California Code of Regulations, Title 8,
STEL   35 ppm   27 mg/m3   US. NIOSH: Pocket Guide to Chemical Hazards (2005)		STEL	35 ppm	27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
REL   25 ppm		STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards
PEL   50 ppm   35 mg/m3   US. OSHA Table 2-1 Limits for Air Contaminants (29 CPR 1910-1000) (02 2006)		REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards
		PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants
REL		TWA PEL		2 mg/m3	US. California Code of Regulations, Title 8,
STEL   3 ppm	1,1,1-011160191-	REL		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards
PEL		TWA	2 ppm		
YWA		STEL	3 ppm		US. ACGIH Threshold Limit Values (2008)
TWA		PEL		2 mg/m3	
TWA		TWA		2 mg/m3	US. Tennessee. OELs. Occupational Exposure
ST ESL		TWA		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
AN ESL		ST ESL		3.3 ppb	US. Texas. Effects Screening Levels (Texas
ST ESL		AN ESL		0.33 ppb	US. Texas. Effects Screening Levels (Texas
AN ESL		ST ESL		20 μg/m3	US. Texas. Effects Screening Levels (Texas
Acetic acid, phenylmethyl ester   TWA		AN ESL		2 μg/m3	US. Texas. Effects Screening Levels (Texas
Section 5155. Airborne Contaminants (09 2006)	Acetic acid, phenylmethyl ester				US. ACGIH Threshold Limit Values (2008)
Commission on Environmental Quality) (11 2016)   AN ESL			10 ppm	61 mg/m3	Section 5155. Airborne Contaminants (09 2006)
Commission on Environmental Quality) (11 2016)   ST ESL				100 ppb	Commission on Environmental Quality) (11 2016)
Commission on Environmental Quality) (11 2016)   AN ESL   61 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   1,4-Dioxane   TWA   25 ppm   90 mg/m3   US. Tennessee. OELs. Occupational Exposure Limits, Table Z14 (06 2008)   AN ESL   20 ppb   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   ST ESL   200 ppb   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   ST ESL   720 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   AN ESL   72 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   AN ESL   72 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   AN ESL   72 μg/m3   US. OSHA Table Z-1-A (29 CFR 1910.1000) (1899)   Ceil_Time   1 ppm   3.6 mg/m3   US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)   Ceil_Time   1 ppm   360 mg/m3   US. ACGIH Threshold Limit Values (2008)   PEL   100 ppm   360 mg/m3   US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)     TWA PEL   0.28 ppm   1.0 mg/m3   US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)     Ethylene Oxide   Ceil_Time   5 ppm   9 mg/m3   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)     TWA   1 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)     STEL   5 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)     US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)     US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)					Commission on Environmental Quality) (11 2016)
Commission on Environmental Quality) (11 2016)   1,4-Dioxane		ST ESL		610 µg/m3	
Limits, Table Z1A (06 2008)		AN ESL		61 µg/m3	
Commission on Environmental Quality) (11 2016)   ST ESL   200 ppb   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   ST ESL   720 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   AN ESL   72 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   AN ESL   72 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   TWA   25 ppm   90 mg/m3   US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)   Ceil_Time   1 ppm   3.6 mg/m3   US. NIOSH: Pocket Guide to Chemical Hazards (2005)   TWA   20 ppm   US. ACGIH Threshold Limit Values (2008)   PEL   100 ppm   360 mg/m3   US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)   TWA PEL   0.28 ppm   1.0 mg/m3   US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)   Ethylene Oxide   Ceil_Time   5 ppm   9 mg/m3   US. NIOSH: Pocket Guide to Chemical Hazards (2005)   TWA   1 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)   STEL   5 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)   OSHA_ACT   0.5 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)	1,4-Dioxane	TWA	25 ppm	90 mg/m3	Limits, Table Z1A (06 2008)
Commission on Environmental Quality) (11 2016)   ST ESL   720 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   AN ESL   72 μg/m3   US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)   TWA   25 ppm   90 mg/m3   US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)   Ceil_Time   1 ppm   3.6 mg/m3   US. NIOSH: Pocket Guide to Chemical Hazards (2005)   TWA   20 ppm   US. ACGIH Threshold Limit Values (2008)   PEL   100 ppm   360 mg/m3   US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)   TWA PEL   0.28 ppm   1.0 mg/m3   US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (202 2012)   Ethylene Oxide   Ceil_Time   5 ppm   9 mg/m3   US. NIOSH: Pocket Guide to Chemical Hazards (2005)   TWA   1 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)   STEL   5 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)   OSHA_ACT   0.5 ppm   US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)		AN ESL		20 ppb	
ST ESL		STESL		200 ppb	US. Texas. Effects Screening Levels (Texas
AN ESL  72 μg/m3  US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  TWA  25 ppm  90 mg/m3  US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)  Ceil_Time  1 ppm  3.6 mg/m3  US. NIOSH: Pocket Guide to Chemical Hazards (2005)  TWA  20 ppm  US. ACGIH Threshold Limit Values (2008)  PEL  100 ppm  360 mg/m3  US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)  TWA PEL  0.28 ppm  1.0 mg/m3  US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)  Ethylene Oxide  Ceil_Time  5 ppm  9 mg/m3  US. NIOSH: Pocket Guide to Chemical Hazards (2005)  US. NIOSH: Pocket Guide to Chemical Hazards (2005)  US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)  STEL  5 ppm  US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)  US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)		ST ESL		720 µg/m3	US. Texas. Effects Screening Levels (Texas
TWA         25 ppm         90 mg/m3         US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)           Ceil_Time         1 ppm         3.6 mg/m3         US. NIOSH: Pocket Guide to Chemical Hazards (2005)           TWA         20 ppm         US. ACGIH Threshold Limit Values (2008)           PEL         100 ppm         360 mg/m3         US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)           TWA PEL         0.28 ppm         1.0 mg/m3         US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)           Ethylene Oxide         Ceil_Time         5 ppm         9 mg/m3         US. NIOSH: Pocket Guide to Chemical Hazards (2005)           TWA         1 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           STEL         5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           OSHA_ACT         0.5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)		AN ESL			US. Texas. Effects Screening Levels (Texas
Ceil_Time		TWA	25 ppm	90 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
TWA         20 ppm         US. ACGIH Threshold Limit Values (2008)           PEL         100 ppm         360 mg/m3         US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)           TWA PEL         0.28 ppm         1.0 mg/m3         US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)           Ethylene Oxide         Ceil_Time         5 ppm         9 mg/m3         US. NIOSH: Pocket Guide to Chemical Hazards (2005)           TWA         1 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           STEL         5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           OSHA_ACT         0.5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)		Ceil_Time	1 ppm	3.6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards
Cay CFR 1910.1000) (02 2006)   TWA PEL			20 ppm		
Section 5155. Airborne Contaminants (02 2012)   Ethylene Oxide		PEL	100 ppm	360 mg/m3	
Ethylene Oxide         Ceil_Time         5 ppm         9 mg/m3         US. NIOSH: Pocket Guide to Chemical Hazards (2005)           TWA         1 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           STEL         5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           OSHA_ACT         0.5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)			0.28 ppm	· ·	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
STEL         5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           OSHA_ACT         0.5 ppm         US. OSHA Specifically Regulated Substances (29 US. OSHA Specifically Regula	Ethylene Oxide		5 ppm	9 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
STEL         5 ppm         US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)           OSHA_ACT         0.5 ppm         US. OSHA Specifically Regulated Substances (29 US. OSHA Specifically Regula					CFR 1910.1001-1053) (02 2006)
OSHA_ACT 0.5 ppm US. OSHA Specifically Regulated Substances (29		STEL	5 ppm		US. OSHA Specifically Regulated Substances (29
		OSHA_ACT	0.5 ppm		US. OSHA Specifically Regulated Substances (29

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STEL	_ 5 ppm		US. California Code of Regulations, Title 8,
			Section 5155. Airborne Contaminants (09 2006)
AN E	SL	2 μg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality) (11 2016)
REL	0.1 ppm	0.18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards
			(2005)
TWA	1 ppm		US. ACGIH Threshold Limit Values (2008)
TWA	A LV 0.5 ppm		US. California Code of Regulations, Title 8,
			Section 5155. Airborne Contaminants (09 2006)
TWA	PEL 1 ppm	2 mg/m3	US. California Code of Regulations, Title 8,
		_	Section 5155. Airborne Contaminants (09 2006)
STE	SL	10 ppb	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality) (11 2016)
TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000)
			(1989)
STEL	_ 5 ppm	·	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			(1989)
STE	SL	20 μg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality) (11 2016)
AN E	SL	1 ppb	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality) (11 2016)

**Biological Limit Values** 

nological Ellilli Values		T
Chemical Identity	Exposure Limit Values	Source
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Ethylene Oxide (S-(2- hydroxyethyl) mercapturic acid (HEMA): Sampling time: End of shift.)	5 μg/g (Creatinine in urine)	ACGIH BEL (03 2018)
Ethylene Oxide (N-(2- hydroxyethyl)-valine (HEV) hemoglobin adducts: Sampling time: Not critical.)	5000 pmol/g (Hemoglobin adducts)	ACGIH BEL (03 2018)

# Appropriate Engineering Controls

No data available.

#### Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels

to an acceptable level.

**Eye/face protection:** Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

Skin Protection

Hand Protection: No data available.

Other: No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Do not get in eyes. Observe good industrial hygiene practices. When using

do not smoke.

# 9. Physical and chemical properties

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**Appearance** 

Physical state: liquid

Form: Spray Aerosol
Color: No data available.
Odor: No data available.
Odor threshold: No data available.
PH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.

Flash Point: -104.44 °C

**Evaporation rate:**No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

No data available.

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

**Vapor pressure:** 2,757.9029 - 4,136.8544 hPa (20 °C)

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

No data available.

No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

# 10. Stability and reactivity

**Reactivity:** No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

**Conditions to avoid:** Avoid heat or contamination.

**Incompatible Materials:** No data available.

**Hazardous Decomposition** 

**Products:** 

No data available.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** No data available.

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No data available. **Skin Contact:** 

Eye contact: No data available.

Ingestion: No data available.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

**Skin Contact:** No data available.

Eve contact: No data available.

Ingestion: No data available.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 9,247.19 mg/kg

**Dermal** 

**Product:** ATEmix: 11,030.39 mg/kg

Inhalation

Product: ATEmix: 412.37 mg/l ATEmix: 31.12 mg/l

Repeated dose toxicity

**Product:** No data available.

Specified substance(s):

Ethanol, 2-butoxy-NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key

study

NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Oral, 90 d): >= 500 mg/kg Oral Read-across Alcohols, C9-11,

based on grouping of substances (category approach), Key study ethoxylated

NOAEL (Rat(Female, Male), Inhalation, >= 28 d); 4.000 ppm(m) Inhalation Butane

Experimental result. Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result. Key study

Glycine, N,N'-1,2ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

Propane

NOAEL (Rat(Female, Male), Oral, 103 Weeks): >= 500 mg/kg Oral Readacross from supporting substance (structural analogue or surrogate), Key

LOAEL (Rat(Male), Inhalation, 1 - 5 d): 30 mg/m3 Inhalation Read-across from supporting substance (structural analogue or surrogate), Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

Sulfuric acid NOAEL (Rat(Female, Male), Oral, 13 Weeks): 482 mg/kg Oral Experimental

monododecyl ester result, Supporting study

sodium salt (1:1) NOAEL (Rat(Female, Male), Oral, 2 yr): 0.15 %(m) Oral Experimental result,

Supporting study

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Bicyclo[2.2.1]heptan-2one, 1,7,7-trimethyl-

NOAEL (Rat(Female, Male), Dermal): 250 mg/kg Dermal Experimental result, Weight of Evidence study

Acetic acid, phenylmethyl

NOAEL (Rat(Male), Oral, 13 Weeks): 900 mg/kg Oral Experimental result,

Supporting study

NOAEL (Rat(Female), Oral, 13 Weeks): 480 mg/kg Oral Experimental result,

Supporting study

1.4-Dioxane NOAEL (Rat(Male), Oral, 716 d): 9.6 mg/kg Oral Experimental result, Key

study

NOAEL (Rat(Female), Oral, 716 d): 19 mg/kg Oral Experimental result, Key

study

LOAEL (Rat(Female, Male), Inhalation, 13 Weeks): 100 ppm(m) Inhalation

Experimental result. Not specified

NOAEL (Mouse(Female, Male), Inhalation, 10 - 11 Weeks): 10 ppm(m) Ethylene Oxide

Inhalation Experimental result, Weight of Evidence study

Skin Corrosion/Irritation

ester

**Product:** No data available.

Specified substance(s):

Ethanol, 2-butoxyin vivo (Rabbit): Irritating Experimental result, Key study

Alcohols, C9-11. ethoxylated

in vivo (Rabbit): Not irritant Read-across based on grouping of substances

(category approach), Weight of Evidence study

Glycine, N.N'-1,2ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)

in vivo (Rabbit): Not irritant Experimental result, Key study

Sulfuric acid monododecyl ester sodium salt (1:1)

in vivo (Rabbit): Irritating Experimental result, Key study

Bicyclo[2.2.1]heptan-2one, 1,7,7-trimethylin vivo (Rabbit): Not irritant Experimental result, Supporting study

Acetic acid, phenylmethyl ester in vivo (Rabbit): Not irritant Experimental result, Key study

Ethylene Oxide in vivo (Rabbit): Irritating Experimental result, Supporting study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Ethanol, 2-butoxy-Rabbit, 24 - 72 hrs: Irritating

Sulfuric acid monododecyl ester sodium salt (1:1)

Rabbit, 24 - 72 hrs: Irritating.

Sodium hydroxide

Corrosive

(Na(OH)) Rabbit, 2 d: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide-

Slightly irritating to eyes

Ethylene Oxide Rabbit, 48 hrs: Irritating

Respiratory or Skin Sensitization

No data available. **Product:** 

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Specified substance(s):

Ethanol, 2-butoxy- Skin sensitization:, in vivo (Guinea pig): Non sensitising Glycine, N,N'-1,2- Skin sensitization:, in vivo (Guinea pig): Non sensitising

ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)

Sulfuric acid Skin sensitization:, in vivo (Guinea pig): Non sensitising

monododecyl ester sodium salt (1:1)

Acetic acid, Skin sensitization:, in vivo (Guinea pig): Sensitising

phenylmethyl ester

1,4-Dioxane Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

**Product:** No data available.

Specified substance(s):

1,4-Dioxane Suspect cancer hazard - may cause cancer.

Ethylene Oxide Potential cancer hazard.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

# **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specified substance(s):

1,4-Dioxane Respiratory tract irritation. - Category 3 with respiratory tract irritation.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

# 12. Ecological information

# **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

Revision Date: 07/08/2019 LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key Ethanol, 2-butoxystudy LC 50 (96 h): 0.9 mg/l Alcohols, C9-11, ethoxylated LC 50 (Oncorhynchus mykiss, 96 h): 5 - 7 mg/l Experimental result, Key study LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study Butane Glycine, N,N'-1,2-LC 50 (Lepomis macrochirus, 96 h): 121 mg/l Experimental result, Key study ethanediylbis[N-NOAEL (Lepomis macrochirus, 96 h): 88 mg/l Experimental result, Key (carboxymethyl)-, sodium study salt (1:4)

Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Sulfuric acid monododecyl ester sodium salt (1:1) LC 50 (Pimephales promelas, 96 h): 29 mg/l Experimental result, Key study

Sodium hydroxide LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 125 mg/l Mortality (Na(OH)) LC 50 (Gambusia affinis, 96 h): < 180 mg/l Experimental result, Supporting

Ammonium hydroxide LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 15 mg/l Mortality ((NH4)(OH)) LC 50 (Fathead minnow (Pimephales promelas), 48 h): 7 mg/l Mortality

Bicyclo[2.2.1]heptan-2- LC 50 (Pimephales promelas, 96 h): 110 mg/l Experimental result, Weight of Evidence study

study

Acetic acid, phenylmethyl LC 50 (Medaka, high-eyes (Oryzias latipes), 96 h): 3.48 - 4.6 mg/l Mortality ester LC 50 (Oryzias latipes, 96 h): 4 mg/l Other, Key study

1,4-Dioxane NOAEL (Oryzias latipes, 21 d): 100 mg/l Experimental result, Key study LC 50 (Oryzias latipes, 21 d): > 100 mg/l Experimental result, Key study

Ethylene Oxide LC 50 (Pimephales promelas, 96 h): 84 mg/l Experimental result, Key study

Aquatic Invertebrates
Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy- EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study

Alcohols, C9-11, EC 50 (Daphnia magna, 48 h): 2.5 mg/l Experimental result, Key study ethoxylated

Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Glycine, N,N'-1,2ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)

EC 50 (Daphnia magna, 24 h): 610 mg/l Experimental result, Key study

Sulfuric acid monododecyl ester sodium salt (1:1)

Sodium hydroxide

LC 50 (Daphnia magna, 48 h): 1.8 mg/l Experimental result, Not specified

EC 50 (Water flea (Ceriodaphnia dubia), 48 h): 34.59 - 47.13 mg/l Intoxication

(Na(OH))

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Ammonium hydroxide

((NH4)(OH))

LC 50 (Water flea (Ceriodaphnia dubia), 48 h): > 0 - 10 mg/l Mortality

Bicyclo[2.2.1]heptan-2one, 1,7,7-trimethylLC 50 (48 h): 9.303 mg/l QSAR QSAR, Key study

Acetic acid, phenylmethyl

ester

EC 50 (Daphnia magna, 24 h): 25 mg/l Experimental result. Key study EC 50 (Daphnia magna, 48 h): 17 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 10 mg/l Experimental result, Key study

EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Experimental result, Key study 1,4-Dioxane

Ethylene Oxide LC 50 (Daphnia magna, 48 h): 212 mg/l Experimental result, Key study

#### Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Ethanol, 2-butoxy-

NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study

Alcohols, C9-11, ethoxylated

NOAEL (Pimephales promelas): 0.16 mg/l Read-across based on grouping

of substances (category approach), Weight of Evidence study

Glycine, N,N'-1,2ethanedivlbis[N-(carboxymethyl)-, sodium NOAEL (Danio rerio): >= 25.7 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

salt (1:4)

Sulfuric acid monododecyl ester NOAEL (Pimephales promelas): > 1.357 mg/l Experimental result, Key study

sodium salt (1:1)

NOAEL (Pimephales promelas): > 103 mg/l Experimental result, Key study

**Aquatic Invertebrates** 

1,4-Dioxane

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study

Alcohols, C9-11, ethoxylated

NOAEL (Daphnia magna): 1.75 mg/l Read-across based on grouping of

substances (category approach). Weight of Evidence study

Glycine, N,N'-1,2ethanedivlbis[N-(carboxymethyl)-, sodium

NOAEL (Daphnia magna): 25 mg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

salt (1:4)

1,4-Dioxane

Sulfuric acid monododecyl ester sodium salt (1:1)

NOAEL (Ceriodaphnia dubia): 1.2 mg/l Experimental result, Key study

NOAEL (Daphnia magna): 1,000 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants** 

**Product:** 

No data available.

Specified substance(s):

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Sulfuric acid monododecyl ester sodium salt (1:1) EC 50 (Green algae (Selenastrum capricornutum), 48 h): 706 - 5,918 mg/l

Mortality

#### Persistence and Degradability

Biodegradation

**Product:** No data available.

Specified substance(s):

Ethanol, 2-butoxy- 90.4 % Detected in water. Experimental result, Key study

Alcohols, C9-11, ethoxylated

100 % (28 d) Detected in water. Read-across based on grouping of

substances (category approach), Weight of Evidence study

Butane 100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Glycine, N,N'-1,2ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

90 - 100 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Sulfuric acid monododecyl ester sodium salt (1:1) 94 % (28 d) Detected in water. Experimental result, Supporting study

95 % Detected in water. Experimental result, Key study

Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-

77 % Detected in water. Experimental result, Key study

Acetic acid, phenylmethyl

ester

100 % (28 d) Detected in water. Experimental result, Key study

1,4-Dioxane < 5 % (60 d) Sediment Experimental result, Key study

< 10 % (29 d) Detected in water. Experimental result, Key study

Ethylene Oxide 93 - 98 % (28 d) Detected in water. Experimental result, Supporting study

**BOD/COD Ratio** 

**Product:** No data available.

#### Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

Alcohols, C9-11, ethoxylated

Pimephales promelas, Bioconcentration Factor (BCF): 237 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate),

Key study

Glycine, N,N'-1,2ethanediylbis[N-(carboxymethyl)-, sodium Lepomis macrochirus, Bioconcentration Factor (BCF): 1.8 Aquatic sediment Experimental result, Key study

(Carboxyrrietry

salt (1:4)

Sulfuric acid monododecyl ester sodium salt (1:1) Carp (Cyprinus carpio), Bioconcentration Factor (BCF): 50 (Flow through)

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Acetic acid, phenylmethyl

ester

Bioconcentration Factor (BCF): 8 Aquatic sediment Estimated by calculation,

Key study

1,4-Dioxane Cyprinus carpio, Bioconcentration Factor (BCF): 0.3 - 0.7 Aquatic sediment

Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Alcohols, C9-11, ethoxylated

Log Kow: 3.3 - 3.73 Yes QSAR, Weight of Evidence study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Ethanol, 2-butoxy- No data available. Alcohols, C9-11, No data available.

ethoxylated

Butane No data available. Glycine, N,N'-1,2-No data available.

ethanediylbis[N-

(carboxymethyl)-, sodium

salt (1:4)

Propane No data available. Sulfuric acid monododecyl No data available.

ester sodium salt (1:1)

Sodium hydroxide (Na(OH)) No data available. Ammonium hydroxide No data available.

((NH4)(OH))

Bicyclo[2.2.1]heptan-2-one,

1,7,7-trimethyl-

No data available.

Acetic acid, phenylmethyl

Acetic a ester

No data available.

1,4-Dioxane No data available. Ethylene Oxide No data available.

Other adverse effects: Harmful to aquatic organisms.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. Transport information

**DOT** 

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1
Label(s): Packing Group: II
Marine Pollutant: No

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

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#### **IMDG**

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2 Label(s): – EmS No.:

Packing Group: -

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

IATA

UN Number: UN 1950

Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1
Label(s): –

Packing Group: –

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

# 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<u>Chemical Identity</u>
Ethylene Oxide

OSHA hazard(s)
Eye irritation

respiratory tract irritation

Skin irritation Skin sensitization Acute toxicity Cancer

Central nervous system Reproductive toxicity

Mutagenicity Flammability

# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Butane	lbs. 100
Propane	lbs. 100
Sodium hydroxide	lbs. 1000
(Na(OH))	
Ammonium hydroxide	lbs. 1000
((NH4)(OH))	
1,4-Dioxane	lbs. 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

lbs. 10

# **Hazard categories**

Ethylene Oxide

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Fire Hazard

Immediate (Acute) Health Hazards

Flammable aerosol

Serious Eye Damage/Eye Irritation

# **SARA 302 Extremely Hazardous Substance**

Reportable

Chemical Identity quantity Threshold Planning Quantity

Ethylene Oxide lbs. 10 lbs. 1000

lbs. 10

#### SARA 304 Emergency Release Notification

Chemical ider	<u>itity</u>	Reportable quantity
Ethanol, 2-buto	oxy-	
Butane		lbs. 100
Propane		lbs. 100
Sodium	hydroxide	lbs. 1000
(Na(OH))		
Ammonium	hydroxide	lbs. 1000
((NH4)(OH))		
1,4-Dioxane		lbs. 100

#### SARA 311/312 Hazardous Chemical

Ethylene Oxide

SARA 311/312 Hazardous Chemical			
Chemical Identity	Threshold Planning Quantity		
Ethylene Oxide	lbs		
Ethanol, 2-butoxy-	10000 lbs		
Alcohols, C9-11,	10000 lbs		
ethoxylated			
Butane	10000 lbs		
Glycine, N,N'-1,2-	10000 lbs		
ethanediylbis[N-			
(carboxymethyl)-, sodium			
salt (1:4)			
Propane	10000 lbs		
Sulfuric acid monododecyl	10000 lbs		
ester sodium salt (1:1)			
Sodium hydroxide	10000 lbs		
(Na(OH))			
Ammonium hydroxide	10000 lbs		
((NH4)(OH))			
Bicyclo[2.2.1]heptan-2-	10000 lbs		
one, 1,7,7-trimethyl-			
Acetic acid, phenylmethyl	10000 lbs		
ester			
1,4-Dioxane	10000 lbs		

SARA 313 (TRI Reporting)

**Chemical Identity** 

Reporting Reporting threshold for manufacturing and processing

Ethanol, 2-butoxy- N230 lbs N230 lbs.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) US State Regulations

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

1,4-Dioxane Carcinogenic. 05 2011

Ethylene Oxide Female reproductive toxin. 03 2008

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Ethylene Oxide Carcinogenic. 05 2011

Ethylene Oxide Male reproductive toxin. 08 2009 Ethylene Oxide Developmental toxin. 08 2009

#### US. New Jersey Worker and Community Right-to-Know Act

# **Chemical Identity**

Ethanol, 2-butoxy-

Butane

# **US. Massachusetts RTK - Substance List**

#### **Chemical Identity**

Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

# US. Pennsylvania RTK - Hazardous Substances

# **Chemical Identity**

Ethanol, 2-butoxy-

Butane

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable

#### **Inventory Status:**

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List: On or in compliance with the inventory

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Not in compliance with the inventory. Canada NDSL Inventory:

Philippines PICCS: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory

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Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: On or in compliance with the inventory

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

# 16.Other information, including date of preparation or last revision

**Issue Date:** 07/08/2019

**Revision Information:** No data available.

Version #: 1.0

Further Information: No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.