



# SAFETY DATA SHEET

## SECTION 1 — IDENTIFICATION

**Product identifier:** AlbaChem® Super 88 Adhesive

**Product Number:** 1088

**Date Prepared:** August 1, 2019

**Revision Date:** August 1, 2022

**Recommended Use:** Adhesive

**Recommended Restrictions:** None Known

**Manufacturer's name and address:** Refer to supplier

**Supplier name and address:**

***ALBATROSS USA INC./EXPERT WORLDWIDE***

36-41 36<sup>th</sup> Street  
Long Island City, New York  
United States  
11106  
718-392-6272

5439 San Fernando Road West  
Los Angeles, California  
United States  
90039  
818-543-5850

**Emergency Telephone #:** Spill leak, fire, exposure or accident – Call CHEMTREC – Day or Night  
1-800-434-9300 or 1-703-527-3887 (USA & Canada)

01-800-681-9531 (Mexico)

+56-225814934 (Chile)

01800-710-2151 (Colombia)

+506-40003869 (Costa Rica)

+507-8322475 (Panama)

+51-17071295 (Peru)

This MSDS complies with 29CFR 19190.1200 (Hazard Communication Standard) and WHMIS regulations.

**IMPORTANT:** Read this MSDS before handling and disposing of this product. Pass this information on to employees, customers, and users of this product.

## SECTION 2 — HAZARD(S) IDENTIFICATION

### Hazard Classification

#### Physical hazards

Flammable aerosols

Category 1

#### Health hazards

Serious Eye Damage/Eye Irritation

Category 2A

Toxic to reproduction

Category 2

Specific Target Organ Toxicity -

Repeated Exposure

Category 2

Aspiration Hazard

Category 1

#### Environmental hazards

Acute hazards to the aquatic environment

Category 2

Chronic hazards to the aquatic environment

Category 2

### Label Elements



**Signal word** Danger

**Hazard statement** Extremely flammable aerosol. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

**Precautionary statement**

**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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. 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. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor/# Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. Collect spillage.

**Storage** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

**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 known.

### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - <25%
2-Propanone	67-64-1	10 - <20%
Hexane	110-54-3	5 - <10%
Propane	74-98-6	5 - <10%
Butane	106-97-8	5 - <10%
Ethane, 1,1-difluoro-	75-37-6	5 - 10%
Limestone	1317-65-3	0.1 - <1%
Pentane	109-66-0	0.1 - <1%
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	0.1 - <1%
Cyclohexane	110-82-7	0.1 - <1%
Heptane	142-82-5	0.1 - <1%

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

### SECTION 4 — FIRST AID MEASURES

**Ingestion:** Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**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. Get medical attention.

**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.

## SECTION 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.

**Unsuitable extinguishing media:** 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.

## SECTION 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 up:**

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

**Notification Procedures:** 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.

## SECTION 7 — HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with 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. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities:** Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3I

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Naphtha (petroleum), hydrotreated light	PEL	100 ppm 400 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
	TWA PEL	300 ppm 1,350 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	STEL	400 ppm 1,800 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	TWA	100 ppm 400 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	REL	100 ppm 400 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	ST ESL	3,500 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
2-Propanone	AN ESL	350 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	100 ppm 400 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	1,000 ppm 2,400 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	750 ppm 1,780 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)

Hexane	PEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) US. ACGIH Threshold Limit Values (03 2015) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006) US. ACGIH Threshold Limit Values (03 2015) US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006) US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006) US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. ACGIH Threshold Limit Values (2008) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006) US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) US. ACGIH Threshold Limit Values (03 2018) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) US. ACGIH Threshold Limit Values (02 2014) US. NIOSH: Pocket Guide to Chemical Hazards (2005) US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	250 ppm	
	TWA	750 ppm 1,800 mg/m3	
	Ceiling	3,000 ppm	
	STEL	500 ppm	
	TWA PEL	500 ppm 1,200 mg/m3	
	REL	250 ppm 590 mg/m3	
	TWA PEL	50 ppm 180 mg/m3	
	TWA	50 ppm 180 mg/m3	
	TWA	50 ppm 180 mg/m3	
	PEL	500 ppm 1,800 mg/m3	
	REL	50 ppm 180 mg/m3	
	TWA	50 ppm	
	AN ESL	200 µg/m3	
	ST ESL	6,200 µg/m3	
Propane	AN ESL	57 ppb	
	ST ESL	1,700 ppb	
	REL	1,000 ppm 1,800 mg/m3	
	PEL	1,000 ppm 1,800 mg/m3	
	TWA PEL	1,000 ppm 1,800 mg/m3	
Butane	TWA	1,000 ppm 1,800 mg/m3	
	TWA	1,000 ppm 1,800 mg/m3	
	REL	800 ppm 1,900 mg/m3	
	TWA	800 ppm 1,900 mg/m3	
	STEL	1,000 ppm	
	TWA	800 ppm 1,900 mg/m3	
	AN ESL	3,000 ppb	
	AN ESL	7,100 µg/m3	
	TWA PEL	800 ppm 1,900 mg/m3	
	ST ESL	66,000 µg/m3	
Limestone – Total	REL	10 mg/m3	
	REL	5 mg/m3	
	REL	5 mg/m3	
Limestone - Total dust.	PEL	15 mg/m3	
	TWA	15 mg/m3	
Limestone - Respirable fraction.	TWA	5 mg/m3	
Limestone - Total dust.	TWA	15 mg/m3	
Limestone - Respirable fraction.	TWA	5 mg/m3	
Pentane	TWA	1,000 ppm	
	Ceil_Time	610 ppm 1,800 mg/m3	
	REL	120 ppm 350 mg/m3	

Silane, dichlorodimethyl-, reaction products with silica - Particulate.	PEL	1,000 ppm 2,950 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	600 ppm 1,800 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	750 ppm 2,250 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	600 ppm 1,800 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	750 ppm 2,250 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	600 ppm 1,800 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL	59,000 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	7,100 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	2,400 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	20,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Silane, dichlorodimethyl-, reaction products with silica			US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
ST ESL 27 µg/m <sup>3</sup>			US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Silane, dichlorodimethyl-, reaction products with silica			US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
TWA 0.8 mg/m <sup>3</sup>			US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Silane, dichlorodimethyl-, reaction products with silica - Particulate.			US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
AN ESL 2 µg/m <sup>3</sup>			US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Silane, dichlorodimethyl-, reaction products with silica			US. ACGIH Threshold Limit Values (2008)
TWA 20 millions of particles per cubic foot of air			US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Cyclohexane	TWA	100 ppm	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	3,400 µg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	300 ppm 1,050 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	300 ppm 1,050 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	300 ppm 1,050 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	PEL	300 ppm 1,050 mg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA PEL	300 ppm 1,050 mg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	340 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Heptane	TWA	400 ppm 1,600 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm 2,000 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	REL	85 ppm 350 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm 2,000 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	500 ppm 2,000 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm	US. ACGIH Threshold Limit Values (02 2012)
	STEL	500 ppm	US. ACGIH Threshold Limit Values (02 2012)
	TWA	400 ppm 1,600 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	10,000 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	2,700 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
ST ESL 2,400 ppb			US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Ceil_Time 440 ppm 1,800 mg/m <sup>3</sup>			US. NIOSH: Pocket Guide to Chemical Hazards (2005)
TWA PEL 400 ppm 1,600 mg/m <sup>3</sup>			US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)

Phenol	STEL	500 ppm 2,000 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	660 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	5 ppm	US. ACGIH Threshold Limit Values (2008)
	REL	5 ppm 19 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	Ceil_Time	15.6 ppm 60 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 ppm 19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 ppm 19 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	5 ppm 19 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	5 ppm 19 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL	39 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Benzene, ethenyl-	ST ESL	150 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	0.86 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	3.3 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	20 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	40 ppm	US. ACGIH Threshold Limit Values (2008)
	REL	50 ppm 215 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	100 ppm 425 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm 215 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	100 ppm 425 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Benzene, ethyl-	Ceiling	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	600 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	50 ppm 215 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	100 ppm 425 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	50 ppm 215 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	Ceiling	500 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	STEL	100 ppm 425 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
	ST ESL	26 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	140 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	2 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2018)
Benzene, ethyl-	AN ESL	33 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	110 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	TWA	100 ppm 435 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	125 ppm 545 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	26,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	570 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	ST ESL	6,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	130 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	REL	100 ppm 435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm 435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

STEL	30 ppm 130 mg/m3
STEL	125 ppm 545 mg/m3
PEL	100 ppm 435 mg/m3
STEL	125 ppm 545 mg/m3
TWA	20 ppm
TWA PEL	5 ppm 22 mg/m3

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2013)  
 US. NIOSH: Pocket Guide to Chemical Hazards (2005)  
 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)  
 US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)  
 US. ACGIH Threshold Limit Values (12 2010)  
 US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2013)

## Biological Limit Values

### Chemical Identity

### Exposure Limit Values

### Source

2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL (03 2015)
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL (03 2018)
Phenol (Phenol with hydrolysis: Sampling time: End of shift.)	250 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, ethenyl- (Mandelic acid plus phenylglyoxylic acid: Sampling time: End of shift.)	400 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, ethenyl- (styrene: Sampling time: End of shift.)	40 µg/l (Urine)	ACGIH BEL (03 2015)
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL (02 2014)

**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 safety glasses with side shields (or goggles).

### 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:** Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	Spray Aerosol
<b>Color:</b>	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 (%):** No data available.

**Flammability limit - lower (%):** No data available.

**Explosive limit - upper (%):** No data available.

**Explosive limit - lower (%):** No data available.

**Vapor pressure:** 3,033.6932 - 4,412.6446 hPa (20 °C)

**Vapor density:** No data available.

**Density:** No data available.

<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## SECTION 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.

## SECTION 11 — TOXICOLOGICAL PROPERTIES

### Information on likely routes of exposure

**Inhalation:** No data available. **Skin Contact:** No data available. **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. **Eye contact:** No data available.

**Ingestion:** No data available.

### Information on toxicological effects

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

##### Oral

**Product:** Not classified for acute toxicity based on available data.

##### Specified substance(s):

**Naphtha (petroleum), hydrotreated light** LD 50 (Rat): > 5,000 mg/kg

**2-Propanone** LD 50 (Rat): 5,800 mg/kg

**Hexane** LD 50: > 2,000 mg/kg

**Limestone** LD 50: > 2,000 mg/kg

**Pentane** LD 50 (Rat): > 2,000 mg/kg, LD 50 (Rat): > 5,000 mg/kg, LD 50 (Rat): > 5,000 mg/kg

**Cyclohexane** LD 50 (Rat): > 5,000 mg/kg

**Heptane** LD 50 (Rat): > 5,000 mg/kg

##### Dermal

**Product:** Not classified for acute toxicity based on available data.

##### Specified substance(s):

**Naphtha (petroleum), hydrotreated light** LD 50 (Rabbit): > 3,750 mg/kg

**2-Propanone** LD 50 (Rabbit): > 7,426 mg/kg

**Hexane** LD 50 (Rabbit): > 2,000 mg/kg

**Limestone** LD 50: > 2,000 mg/kg

**Pentane** LD 50: > 2,000 mg/kg

**Cyclohexane** LD 50 (Rabbit): > 2,000 mg/kg

**Heptane** LD 50 (Rabbit): > 2,000 mg/kg

##### Inhalation

**Product:** Not classified for acute toxicity based on available data.

##### Specified substance(s):

**Naphtha (petroleum), hydrotreated light** LOAEL (Human): 2,400 mg/m<sup>3</sup>, LC 50 (Rat): > 7,630 mg/m<sup>3</sup>, LC 50: > 5 mg/l

**2-Propanone** LC 50 (Rat): 50.1 mg/l, LC 50: > 5 mg/l

**Hexane** LC 50 (Rat): > 31.86 mg/l, LC 50: > 5 mg/l



**Propane** LC 50 (Mouse): 1,237 mg/l  
**Butane** LC 50 (Mouse): 1,237 mg/l  
**Limestone** LC 50: > 5 mg/l, LC 50: > 20 mg/l  
**Pentane** LC 50 (Rat): > 25.3 mg/l, LC 50: > 5 mg/l  
**Cyclohexane** LC 50 (Rat): > 32,880 mg/m<sup>3</sup>  
**Heptane** LC 50 (Rat): > 29.29 mg/l

### Repeated dose toxicity

**Product:** No data available.

#### Specified substance(s):

**Naphtha (petroleum), hydrotreated light** LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Read-across based on grouping of substances (category approach), Key study NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m<sup>3</sup> Inhalation Experimental result, Key study

**2-Propanone** NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study

**Hexane** NOAEL (Mouse(Male), Inhalation, 13 Weeks): 500 ppm(m) Inhalation Experimental result, Key study LOAEL (Mouse(Male), Inhalation, 13 Weeks): 1,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Male), Inhalation, 16 Weeks): 3,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Mouse(Female), Inhalation, 13 Weeks): 500 ppm(m) Inhalation Experimental result, Key study

**Propane** 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

**Butane** 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

**Pentane** LOAEL (Rat(Male), Inhalation): 3,000 ppm(m) Inhalation Experimental result, Supporting study NOAEL (Rat, Inhalation): 3,000 ppm(m) Inhalation Experimental result, Supporting study NOAEL (Rat, Inhalation): 30 mg/l Inhalation Read-across based on grouping of substances (category approach), Key study NOAEL (Rat(Female, Male), Inhalation, 13 Weeks): >= 6,646 ppm(m) Inhalation Read-across based on grouping of substances (category approach), Key study NOAEL (Rat(Female, Male), Inhalation): 20,000 mg/m<sup>3</sup> Inhalation Experimental result, Key study

**Cyclohexane** NOAEL (Rat(Female, Male), Inhalation, 13 - 18 Weeks): 7,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Mouse(Female, Male), Inhalation, 13 - 18 Weeks): 500 ppm(m) Inhalation Experimental result, Key study

**Heptane** NOAEL (Rat(Male), Inhalation): 12,470 mg/m<sup>3</sup> Inhalation Experimental result, Key study

### Skin Corrosion/Irritation

**Product:** No data available.

#### Specified substance(s):

**2-Propanone** in vivo (Rabbit): Not irritant Experimental result, Supporting study

**Pentane** in vivo (Rabbit): Not classified as an Irritant Experimental result, Key study

**Cyclohexane** Review (Various): Irritating. in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study

**Heptane** in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

#### Specified substance(s):

**Naphtha (petroleum), hydrotreated light** Rabbit, 24 - 72 hrs: Not irritating

**2-Propanone** Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant

**Hexane** Rabbit, 1 - 72 hrs: Not irritating

**Pentane** Rabbit, 48 hrs: Not irritating, Rabbit, 24 hrs: Not irritating, Rabbit, 1 hrs: Not irritating, Rabbit, 1 hrs: Not irritating

**Heptane** Rabbit, 24 - 72 hrs: Not irritating

### Respiratory or Skin Sensitization

**Product:** No data available.

**Specified substance(s):****Naphtha (petroleum), hydrotreated light** Skin sensitization:, in vivo (Guinea pig): Non sensitising**2-Propanone** Skin sensitization:, in vivo (Guinea pig): Non sensitising**Pentane** Skin sensitization:, in vivo (Guinea pig): Non sensitising**Cyclohexane** Skin sensitization:, in vivo (Guinea pig): Non sensitising**Heptane** Skin sensitization:, in vivo (Guinea pig): Non sensitising**Carcinogenicity****Product:** No data available.**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.**Specified substance(s): Hexane** Suspected of damaging fertility or the unborn child.**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Specified substance(s):****2-Propanone** Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.**Hexane** Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.**Cyclohexane** Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.**Heptane** Narcotic effect. - Category 3 with narcotic effects.**Specific Target Organ Toxicity - Repeated Exposure****Product:** No data available.**Specified substance(s): Hexane** Inhalation - vapor: Nervous System - Category 2**Aspiration Hazard****Product:** No data available.**Specified substance(s):****Naphtha (petroleum), hydrotreated light** May be fatal if swallowed and enters airways.**Hexane** May be fatal if swallowed and enters airways.**Cyclohexane** May be fatal if swallowed and enters airways.**Heptane** May be fatal if swallowed and enters airways.**Other effects:** No data available.**SECTION 12 — ECOLOGICAL INFORMATION****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Specified substance(s):****Naphtha (petroleum), hydrotreated light** LC 50 (96 h): 8.41 mg/l Experimental result, Key study**2-Propanone** LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study**Hexane** LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.101 - 2.981 mg/l Mortality**Propane** LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study**Butane** LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study**Pentane** NOAEL (Oncorhynchus kisutch, 96 h): > 100 mg/l Experimental result, Weight of Evidence study, LL 50 (Oncorhynchus mykiss, 96 h): 27.55 mg/l QSAR QSAR, Key study, LC 50 (Oncorhynchus mykiss, 96 h): 4.26 mg/l Experimental result, Supporting study**Cyclohexane** LC 50 (Pimephales promelas, 96 h): 4.53 mg/l Experimental result, Key study**Heptane** LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

**Naphtha (petroleum), hydrotreated light** EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

**2-Propanone** LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study

**Hexane** EC 50 (Daphnia magna, 48 h): 21.85 mg/l QSAR QSAR, Key study, LC 50 (Water flea (Daphnia magna), 24 h): > 50 mg/l Mortality

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

**Pentane** EC 50 (Daphnia magna, 48 h): 48.11 mg/l QSAR QSAR, Key study, EC 50 (Daphnia magna, 48 h): 2.8 mg/l QSAR QSAR, Supporting study, EC 50 (Daphnia magna, 48 h): 2.7 mg/l Experimental result, Supporting study, EC 50 (Daphnia magna, 48 h): 9.1 mg/l Experimental result, Supporting study

**Cyclohexane** EC 50 (Daphnia magna, 48 h): 0.9 mg/l Experimental result, Key study

**Heptane** EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study

**Chronic hazards to the aquatic environment:****Fish**

**Product:** NOEC : Estimated < 1 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

**Naphtha (petroleum), hydrotreated light** EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study, NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study

**2-Propanone** LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study, NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

**Hexane** NOAEL (Daphnia magna): 4.888 mg/l QSAR QSAR, Key study

**Pentane** NOAEL (Daphnia magna): 10.76 mg/l QSAR QSAR, Key study

**Heptane** NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of substances (category approach), Key study EC 50 (Daphnia magna): 0.23 mg/l Read-across based on grouping of substances (category approach), Key study

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability****Biodegradation**

**Product:** No data available.

**Specified substance(s):**

**Naphtha (petroleum), hydrotreated light** 90.35 % (28 d) Detected in water. Experimental result, Supporting study

**2-Propanone** 90.9 % (28 d) Detected in water. Experimental result, Key study

**Hexane** 81 % Detected in water. Read-across based on grouping of substances (category approach), Key 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

**Butane** 100 % (385.5 h) Detected in water. Experimental result, Key study, 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

**Pentane** 87 % Detected in water. Experimental result, Key study, 3 % Detected in water. Experimental result, Key study, 48.8 % Detected in water. Experimental result, Key study, 71.43 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study, 65.5 % Detected in water. Experimental result, Key study

**Cyclohexane** 77 % (28 d) Detected in water. Experimental result, Key study

**Heptane** 70 % Detected in water. Experimental result, Key study

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential****Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

**Naphtha (petroleum), hydrotreated light** Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment

Estimated by calculation, Key study

**2-Propanone** Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified

**Hexane** Pimephales promelas, Bioconcentration Factor (BCF): 501.19 Aquatic sediment QSAR, Key study

**Pentane** Pimephales promelas, Bioconcentration Factor (BCF): 171 Aquatic sediment QSAR, Key study

**Cyclohexane** Cyprinus carpio, Bioconcentration Factor (BCF): 37 - 129 Aquatic sediment Experimental result, Supporting study

**Heptane** Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

**Naphtha (petroleum), hydrotreated light** Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study, Log Kow: 2.2 - 5.2 23 °C Yes Experimental result, Key study, Log Kow: 2.2 - 6.1 23 °C Yes Experimental result, Key study

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

**Naphtha (petroleum), hydrotreated light** No data available.

**2-Propanone** No data available.

**Hexane** No data available.

**Propane** No data available.

**Butane** No data available.

**Limestone** No data available.

**Pentane** No data available.

**Silane, dichlorodimethyl-, reaction products with silica** No data available.

**Cyclohexane** No data available.

**Heptane** No data available.

**Other adverse effects:** Toxic to aquatic life with long lasting effects.

## SECTION 13 — DISPOSAL CONSIDERATIONS

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

**Contaminated Packaging:** No data available.

## SECTION 14 — TRANSPORTATION 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.

### IMDG

**UN Number:** UN 1950

**UN Proper Shipping Name:** Aerosols, flammable

**Transport Hazard Class(es)**

**Class:** 2**Label(s):** –**EmS No.:** F-D, S-U**Packing Group:** –**Environmental Hazards:** Yes**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:** Yes**Marine Pollutant** No**Special precautions for user:** Not regulated.**Cargo aircraft only:** Allowed.**SECTION 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)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

<b>Chemical Identity</b>	<b>Reportable quantity</b>
Methane, 1,1'-oxybis-	lbs. 100
2-Propanone	lbs. 5000
Hexane	lbs. 5000
Propane	lbs. 100
Butane	lbs. 100
Cyclopentane, methyl-	lbs. 100
Pentane	lbs. 100
Cyclohexane	lbs. 1000
Heptane	lbs. 100
Phenol	lbs. 1000
Benzene, ethenyl-	lbs. 1000
Benzene, ethyl-	lbs. 1000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Fire Hazard

Immediate (Acute) Health Hazards

Delayed (Chronic) Health Hazard

Flammable aerosol

Serious Eye Damage/Eye Irritation

Toxic to reproduction

Specific Target Organ Toxicity - Repeated Exposure

Aspiration Hazard

**SARA 302 Extremely Hazardous Substance**

<b>Chemical Identity</b>	<b>Reportable quantity</b>	<b>Threshold Planning Quantity</b>
2-Propanone		
Hexane		
Ethane, 1,1-difluoro-		

Phenol	lbs. 1000	- - -
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**SARA 304 Emergency Release Notification**

Chemical Identity	Reportable quantity
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Methane, 1,1'-oxybis-	lbs. 100
2-Propanone	lbs. 5000
Hexane	lbs. 5000
Ethane, 1,1-difluoro-	
Propane	lbs. 100
Butane	lbs. 100
Cyclopentane, methyl-	lbs. 100
Pentane	lbs. 100
Cyclohexane	lbs. 1000
Heptane	lbs. 100
Phenol	lbs. 1000
Benzene, ethenyl-	lbs. 1000
Benzene, ethyl-	lbs. 1000

**SARA 311/312 Hazardous Chemical**

Chemical Identity	Threshold Planning Quantity
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Phenol	lbs
Naphtha (petroleum), hydrotreated light	10000 lbs
2-Propanone	10000 lbs
Hexane	10000 lbs
Propane	10000 lbs
Butane	10000 lbs
Limestone	10000 lbs
Pentane	10000 lbs
Silane, dichlorodimethyl-, reaction products with silica	10000 lbs
Cyclohexane	10000 lbs
Heptane	10000 lbs
Benzene, ethenyl-	10000 lbs
Benzene, ethyl-	10000 lbs

**SARA 313 (TRI Reporting)**

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Hexane	lbs	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.

Hexane	Male reproductive toxin. 12 2017
Benzene, ethenyl-	Carcinogenic. 04 2016
Benzene, ethyl-	Carcinogenic. 05 2011

**US. New Jersey Worker and Community Right-to-Know Act****Chemical Identity**

Naphtha (petroleum), hydrotreated light
Methane, 1,1'-oxybis-
2-Propanone
Hexane
Ethane, 1,1-difluoro-
Propane
Butane
Cyclopentane, methyl-

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Phenol

Benzene, ethenyl-

**US. Pennsylvania RTK - Hazardous Substances****Chemical Identity**

Naphtha (petroleum), hydrotreated light

Methane, 1,1'-oxybis-

2-Propanone

Hexane

Propane

Butane

Cyclopentane, methyl-

**US. Rhode Island RTK** No ingredient regulated by RI Right-to-Know Law present.**International regulations****Montreal protocol**

2-Propanone

Hexane

Ethane, 1,1-difluoro-      Group I Annex F

**Stockholm convention**

2-Propanone

Hexane

Ethane, 1,1-difluoro-

**Rotterdam convention**

2-Propanone

Hexane

Ethane, 1,1-difluoro-

**Kyoto protocol****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.

Canada NDSL Inventory: Not in compliance with the 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

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

**SECTION 16 — OTHER INFORMATION****Issue Date:** 08/01/2019**Revision Date:** 08/01-2022**Revision Information:** Additional Chemtrec phone numbers in section 1.**Version #:** 2.0**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.