



# SAFETY DATA SHEET

## SECTION 1 — IDENTIFICATION

**Product identifier:** AlbaChem® Premium Mist Adhesive

**Product Number:** 1787

**Recommended Use:** Adhesive

**Recommended restrictions:** This product is not for sale in California.

**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 (México ) +56-225814934 (Chile )  
01800 -710 -2151 (Colombia) +506-40003869 (Costa Rica)  
+507-8322475 (Panamá ) +51-17071295 (Perú )

This Safety Data Sheet conforms to the requirements of ANSI Z400.5, and to the format requirements of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD).

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

## SECTION 2 — HAZARD(S) IDENTIFICATION

<b>Physical hazards</b>	Flammable aerosols	Category 1
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
<b>OSHA defined hazards</b>	Not classified	



**Label elements**

**Signal word**

**Hazard statement**

Danger  
Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement**

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container. Do not pierce or burn, even after use. Do not breathe gas.

<b>Response</b>	Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise Classified (HNOC)</b>	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
<b>Supplemental information</b>	None

### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Chemical name	CAS number	%
Hexane	110-54-3	10 - <25%
Hexane, Branched And Linear	92112-69-1	10 - <25%
2-Propanone	67-64-1	10 - <20%
Propane	74-98-6	10 - <20%
Butane	106-97-8	10 - <20%
White mineral oil (petroleum)	8042-47-5	1 - <5%
Limestone	1317-65-3	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

<b>Inhalation</b>	Remove victim to fresh.
<b>Skin contact</b>	Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
<b>Eye contact</b>	immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Ingestion</b>	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.
<b>Most important symptoms/effects, acute and delayed</b>	
<b>Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.
<b>Indication of immediate medical attention and special treatment needed</b>	
<b>Treatment:</b>	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. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**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. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

**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 3

## SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Hexane	TWA	50 ppm 180 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	500 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	50 ppm 180 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	50 ppm	US. ACGIH Threshold Limit Values (2008)
2-Propanone	STEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	1,000 ppm 2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	250 ppm	US. ACGIH Threshold Limit Values (03 2015)
	TWA	750 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Propane	STEL	500 ppm	US. ACGIH Threshold Limit Values (03 2015)
	REL	250 ppm 590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	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)
Butane	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	800 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (03 2018)
White mineral oil (petroleum) - Mist.	TWA	800 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

White mineral oil (petroleum) - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Limestone - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Limestone - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Limestone - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Limestone - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Limestone - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Cyclohexane	TWA	100 ppm	US. ACGIH Threshold Limit Values (2008)
	TWA	300 ppm 1,050 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	300 ppm 1,050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	300 ppm 1,050 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Heptane	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	85 ppm 350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	500 ppm 2,000 mg/m3	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)
	Ceil_Time	440 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Phenol	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)
Benzene, methyl-	STEL	150 ppm 560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	100 ppm 375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm 375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	20 ppm	US. ACGIH Threshold Limit Values (2008)
	TWA	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	STEL	150 ppm 560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Benzene, ethenyl-	REL	50 ppm 215 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)
	TWA	20 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	100 ppm 425 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	40 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	100 ppm 425 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	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	2 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2018)
Benzene, ethyl-	STEL	125 ppm 545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	100 ppm 435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	100 ppm 435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	125 ppm 545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm 435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 ppm	US. ACGIH Threshold Limit Values (12 2010)
Benzene	REL	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	1 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	25 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	0.5 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	2.5 ppm	US. ACGIH Threshold Limit Values (2008)
	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)
	TWA	10 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	50 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	STEL	5 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (02 2006)

	STEL	1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Naphthalene	PEL	10 ppm	50 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 ppm	50 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	15 ppm	75 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	10 ppm	50 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	15 ppm	75 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

### Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL (03 2018)
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL (03 2015)
Phenol (Phenol with hydrolysis: Sampling time: End of shift.)	250 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (03 2013)
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
Benzene, ethenyl- (styrene: Sampling time: End of shift.)	40 µg/l (Urine)	ACGIH BEL (03 2015)
Benzene, ethenyl- (Mandelic acid plus phenylglyoxylic acid: Sampling time: End of shift.)	400 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
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)
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 µg/g (Creatinine in urine)	ACGIH BEL (03 2013)
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 µg/g (Creatinine in urine)	ACGIH BEL (03 2013)

**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:** Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**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. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	liquid
<b>Physical state:</b>	
<b>Form:</b>	Spray Aerosol
<b>Color:</b>	No data available.
<b>Odor:</b>	No data available.
<b>Odor threshold:</b>	No data available.

<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	Estimated 56.05 °C
<b>Flash Point:</b>	-104.44 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	Estimated 9.4 %(V)
<b>Flammability limit - lower (%):</b>	Estimated 2.2 %(V)
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	2,275 - 3,654 hPa (20 °C)
<b>Vapor density:</b>	No data available.
<b>Density:</b>	Estimated 0.681 g/cm <sup>3</sup>
<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>	Estimated 328.85 °C
<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 INFORMATION

### 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	
<b>Product:</b>	Not classified for acute toxicity based on available data.
Specified substance(s):	
Hexane	LD 50: > 2,000 mg/kg
2-Propanone	LD 50 (Rat): 5,800 mg/kg
White mineral oil (petroleum)	LD 50 (Rat): > 5,000 mg/kg
Limestone	LD 50: > 2,000 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):

Hexane LD 50 (Rabbit): > 2,000 mg/kg  
 2-Propanone LD 50 (Rabbit): > 7,426 mg/kg  
 White mineral oil (petroleum) LD 50 (Rabbit): > 2,000 mg/kg  
 Limestone 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):

Hexane LC 50 (Rat): > 31.86 mg/l  
 LC 50: > 5 mg/l  
 2-Propanone LC 50 (Rat): 50.1 mg/l  
 LC 50: > 5 mg/l  
 Propane LC 50: > 100 mg/l  
 LC 50: > 100 mg/l  
 Butane LC 50: > 100 mg/l  
 LC 50: > 100 mg/l  
 White mineral oil (petroleum) LC 50 (Rat): > 5 mg/l  
 LC 50: > 20 mg/l  
 Limestone LC 50: > 5 mg/l  
 LC 50: > 20 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):

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

2-Propanone NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral 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 LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation  
 Experimental result, Key study  
 NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation  
 Experimental result, Key study

White mineral oil (petroleum) NOAEL (Rat(Female, Male), Oral, 90 d): >= 20,000 ppm(m) Oral  
 Experimental result, Key study  
 NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Read-across from  
 supporting substance (structural analogue or surrogate), Key study LOAEL  
 (Rat(Female, Male), Inhalation): 210 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

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

#### Specified substance(s):

Hexane	Rabbit, 1 - 72 hrs: Not irritating
2-Propanone	Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant
White mineral oil (petroleum)	Rabbit, 24 - 72 hrs: Not irritating
Heptane	Rabbit, 24 - 72 hrs: Not irritating

### Respiratory or Skin Sensitization

**Product:** No data available.

#### Specified substance(s):

2-Propanone Skin sensitization:, in vivo (Guinea pig): Non sensitising  
White mineral oil (petroleum) 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):

Hexane

**Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.**

2-Propanone 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

**Target Organs** Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

### Aspiration Hazard

**Product:** No data available.

#### Specified substance(s):

Hexane May be fatal if swallowed and enters airways.



Hexane, Branched And Linear May be fatal if swallowed and enters airways.

White mineral oil (petroleum) 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.

## SECTION 12 — ECOLOGICAL INFORMATION

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

<b>Product:</b>	No data available.
Specified substance(s):	
Hexane	LC 50 (Fathead minnow ( <i>Pimephales promelas</i> ), 96 h): 2.101 - 2.981 mg/l Mortality
2-Propanone	LC 50 ( <i>Oncorhynchus mykiss</i> , 96 h): 5,540 mg/l Experimental result, Key study
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
Cyclohexane	LC 50 ( <i>Pimephales promelas</i> , 96 h): 4.53 mg/l Experimental result, Key study
Heptane	LC 50 (Mozambique tilapia ( <i>Tilapia mossambica</i> ), 96 h): 375 mg/l Mortality
White mineral oil (petroleum)	NOAEL ( <i>Oncorhynchus mykiss</i> , 96 h): $\geq 100$ mg/l Experimental result, Key study LL 50 ( <i>Oncorhynchus mykiss</i> , 96 h): $> 100$ mg/l Experimental result, Key study

#### Aquatic Invertebrates

**Product: No data available.**

##### Specified substance(s):

Hexane	EC 50 ( <i>Daphnia magna</i> , 48 h): 21.85 mg/l QSAR QSAR, Key study LC 50 ( <i>Water flea (Daphnia magna)</i> , 24 h): $> 50$ mg/l Mortality
Hexane, Branched And Linear	EC 50 (48 h): $< 100$ mg/l Estimated
2-Propanone	LC 50 ( <i>Daphnia pulex</i> , 48 h): 8,800 mg/l Experimental result, Key study
Butane	LC 50 ( <i>Daphnia sp.</i> , 48 h): 69.43 mg/l QSAR QSAR, Key study
Cyclohexane	EC 50 ( <i>Daphnia magna</i> , 48 h): 0.9 mg/l Experimental result, Key study
Heptane	EC 50 ( <i>Daphnia magna</i> , 48 h): 1.5 mg/l Experimental result, Key study
White mineral oil (petroleum)	NOAEL ( <i>Daphnia magna</i> , 48 h): $\geq 100$ mg/l Experimental result, Key study

#### Chronic hazards to the aquatic environment:

##### Fish

**Product: No data available.**

##### Specified substance(s):

Hexane	NOAEL ( <i>Oncorhynchus mykiss</i> ): 2.8 mg/l QSAR QSAR, Key study
White mineral oil (petroleum)	NOAEL ( <i>Oncorhynchus mykiss</i> ): $\geq 1,000$ mg/l QSAR QSAR, Supporting study
Heptane	NOAEL ( <i>Oncorhynchus mykiss</i> ): 1.284 mg/l QSAR QSAR, Key study

#### Aquatic Invertebrates

**Product: No data available.**

##### Specified substance(s):

Hexane	NOAEL ( <i>Daphnia magna</i> ): 4.888 mg/l QSAR QSAR, Key study
2-Propanone	LOAEL ( <i>Daphnia magna</i> ): 2,212 mg/l Experimental result, Key study NOAEL ( <i>Daphnia magna</i> ): 2,212 mg/l Experimental result, Key study
White mineral oil (petroleum)	NOAEL ( <i>Daphnia magna</i> ): $\geq 1,000$ mg/l QSAR QSAR, Supporting 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):**

Hexane 81 % Detected in water. Read-across based on grouping of substances (category approach), Key study  
 2-Propanone 90.9 % (28 d) Detected in water. Experimental result, 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  
 White mineral oil (petroleum) 31 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting 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):**

Hexane Pimephales promelas, Bioconcentration Factor (BCF): 501.19 Aquatic sediment QSAR, Key study  
 2-Propanone Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified  
 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.

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

**Known or predicted distribution to environmental compartments**

Hexane	No data available.
Hexane, Branched And Linear	No data available.
2-Propanone	No data available.
Propane	No data available.
Butane	No data available.
White mineral oil (petroleum)	No data available.
Limestone	No data available.
Cyclohexane	No data available.
Heptane	No data available.

**Other adverse effects:** Toxic to aquatic organisms. Harmful 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 — TRANSPORT INFORMATION****DOT**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable

**Transport hazard class(es)**  
**Class** 2.1  
**Subsidiary risk** -  
**Label(s)** None  
**Packing group** II  
**Marine Pollutant** Not applicable  
**Environmental Hazards:** No  
**Special precautions for user:** Not regulated.

**IMDG**

**UN number** UN1950  
**UN proper shipping name** AEROSOLS  
**Transport hazard class(es)**  
**Class** 2  
**Label(s)** -  
**EmS No.:** F-D, S-U  
**Packing group** Not applicable  
**Environmental hazards** Yes  
**Marine pollutant** No  
**Special precautions** 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**

**Restrictions on use:** Not known.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

<b>Chemical Identity</b>	<b>OSHA hazard(s)</b>
Benzene	Flammability, Cancer, Aspiration, Eye, Blood, Skin, respiratory tract irritation, Central nervous system

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

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

Benzene lbs. 10  
Naphthalene lbs. 100

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

Fire Hazard  
Immediate (Acute) Health Hazards  
Delayed (Chronic) Health Hazard  
Flammable aerosol  
Skin Corrosion/Irritation  
Serious Eye Damage/Eye Irritation  
Skin sensitizer  
Toxic to reproduction  
Specific Target Organ Toxicity - Single Exposure  
Specific Target Organ Toxicity - Repeated Exposure  
Aspiration Hazard

## SARA 302 Extremely Hazardous Substance

<b><u>Chemical Identity</u></b>	<b><u>Reportable quantity</u></b>	<b><u>Threshold Planning Quantity</u></b>
Hexane		
2-Propanone		
Phenol	lbs. 1000	- - -

## SARA 304 Emergency Release Notification

<b><u>Chemical Identity</u></b>	<b><u>Reportable quantity</u></b>
Hexane	lbs. 5000
2-Propanone	lbs. 5000
Propane	lbs. 100
Butane	lbs. 100
Cyclopentane, methyl-	lbs. 100
Methane, 1,1'-oxybis-	lbs. 100
Cyclohexane	lbs. 1000
Heptane	lbs. 100
Phenol	lbs. 1000
Benzene, methyl-	lbs. 1000
Benzene, ethenyl-	lbs. 1000
Benzene, ethyl-	lbs. 1000
Benzene	lbs. 10
Naphthalene	lbs. 100

## SARA 311/312 Hazardous Chemical

<b><u>Chemical Identity</u></b>	<b><u>Threshold Planning Quantity</u></b>
Phenol	lbs
Hexane	10000 lbs
Hexane, Branched And Linear	10000 lbs
2-Propanone	10000 lbs
Propane	10000 lbs
Butane	10000 lbs
White mineral oil (petroleum)	10000 lbs
Limestone	10000 lbs
Cyclohexane	10000 lbs
Heptane	10000 lbs
Benzene, methyl-	10000 lbs
Benzene, ethenyl-	10000 lbs
Benzene, ethyl-	10000 lbs
Benzene	10000 lbs
Naphthalene	10000 lbs

## SARA 313 (TRI Reporting)

<b><u>Chemical Identity</u></b>	<b><u>Reporting threshold for other users</u></b>	<b><u>Reporting threshold for manufacturing and processing</u></b>
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, methyl- Developmental toxin. 03 2008

Benzene, ethenyl- Carcinogenic. 04 2016

Benzene, ethyl- Carcinogenic. 05 2011

Benzene Developmental toxin. 03 2008

Benzene Carcinogenic. 05 2011

Benzene Male reproductive toxin. 03 2008

Naphthalene Carcinogenic. 05 2011

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

Hexane

2-Propanone

Propane

Butane

Cyclopentane, methyl-

Methane, 1,1'-oxybis-

White mineral oil (petroleum)

**US. Massachusetts RTK - Substance List****Chemical Identity**

Phenol

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

Hexane

2-Propanone

Propane

Butane

Cyclopentane, methyl-

Methane, 1,1'-oxybis-

White mineral oil (petroleum)

**US. Rhode Island RTK**

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

**International regulations****Montreal protocol**

Hexane

2-Propanone

**Stockholm convention**

Hexane

2-Propanone

**Rotterdam convention**

Hexane

2-Propanone

**Kyoto protocol****Inventory Status:**

Australia AICS:

Not 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:

On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI):

On or in compliance with the inventory

Canada NDSL Inventory:

Not in compliance with the inventory.

Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not 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:	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory:	Not in compliance with the inventory.

<b>SECTION 16 — OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION</b>
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<b>Issue date</b>	04/18/2018
<b>Revision date</b>	08/12/2022
<b>Prepared by</b>	Albatross USA Inc.
<b>Telephone number</b>	718-392-6272
<b>.Disclaimer</b>	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.
<b>Revision information</b>	Product and Company Identification: Alternate Trade Names