






# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>PRODUCT NUMBER:</b>	1703	<b>COMPANY PHONE:</b>	1-800-241-8180
<b>PRODUCT NAME:</b>	DRI LUB	<b>EMERGENCY TELEPHONE:</b>	1-800-241-8180
<b>PRODUCT DESCRIPTION:</b>	Dry Lubricant and Release Agent.	<b>INFOTRAC:</b>	1-800-535-5053
<b>COMPANY INFORMATION:</b>	<b>PRO CHEM, INC.</b> 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

## 2. Hazards Identification

<b>GHS CLASSIFICATION:</b> Flammable aerosols: Category 1 Serious eye damage/eye irritation: Category 2A Reproductive toxicity: Category 2 Specific target organ toxicity, repeated exposure: Category 2 Aspiration Hazard: Category 1 <b>Environmental hazards:</b> Not classified. <b>OSHA defined hazards:</b> Not classified.	<b>SIGNAL WORD:</b> <b>DANGER</b>	<b>SYMBOL:</b>			
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### HAZARD STATEMENTS:

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

### PRECAUTIONARY STATEMENTS:

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

**Response:** IF SWALLOWED: Immediately call a poison center/doctor. 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. Do NOT induce vomiting. If eye irritation persists: Get medical advice/attention.

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

**Disposal:** Not available.

### HAZARDS NOT OTHERWISE SPECIFIED:

None known.

### SUPPLEMENTAL INFORMATION:

None.

## 3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Butane	106-97-8	20 - 40
Propane	74-98-6	20 - 40
Acetone	67-64-1	10 - 20
Solvent Naphtha (petroleum), Light Aliph	64742-89-8	2.5-10
Heptane, branched, cyclic and linear	426260-76-6	2.5-10
Ethyl Alcohol	64-17-5	2.5 - 10
n-Heptane	142-82-5	2.5 - 10
Cyclohexane	110-82-7	1 - 2.5
n-Hexane	110-54-3	1 - 2.5
Toluene	108-88-3	0.1 - 1
Other components below reportable levels		2.5 - 10

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First Aid Measures

### EMERGENCY OVERVIEW

**GENERAL INFORMATION:** IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**EYES:** Rinse with water. Get medical attention if irritation develops and persists.

**SKIN:** Wash off with soap and water. Get medical attention if irritation develops and persists.

### INHALATION:

Move to fresh air. Call a physician if symptoms develop or persist.

### INGESTION:

Rinse mouth. Get medical attention if symptoms occur.

### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Dizziness. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**  
 Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**5. Fire Fighting Measures**

**SUITABLE FIRE EXTINGUISHING MEDIA:**  
 Powder. Alcohol resistant foam. Carbon dioxide (CO2).

**UNSUITABLE FIRE EXTINGUISHING MEDIA:**  
 Do not use water jet as an extinguisher, as this will spread the fire.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:**  
 Contents under pressure. Pressurized container may explode when exposed to heat or flame.

**SPECIFIC FIRE-FIGHTING METHODS:**  
 Move containers from fire area, if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

**SPECIAL PROTECTIVE EQUIPMENT/INSTRUCTIONS/PRECAUTIONS FOR FIRE FIGHTERS:**  
 Move containers from fire area, if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**GENERAL FIRE HAZARDS:**  
 Extremely flammable aerosol.

**6. Accidental Release Measures**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**  
 Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:**  
 Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.

**ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:**  
 Avoid discharge into drains, watercourses or onto the ground.

**7. Handling and Storage**

**PRECAUTIONS FOR SAFE HANDLING:**  
 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**  
 Level 3 Aerosol  
 Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate, or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure Controls / Personal Protection**

**OCCUPATIONAL EXPOSURE LIMITS**

**US. OSHA TABLE Z-1 LIMITS FOR AIR CONTAMINANTS (29 CFR 1910.1000)**


COMPONENTS	CAS #	TYPE	VALUE
Acetone	(CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm
Cyclohexane	(CAS 110-82-7)	PEL	1050 mg/m3 300 ppm
Ethyl Alcohol	(CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
n-Heptane	(CAS 142-82-5)	PEL	2000 mg/m3 500 ppm
n-Hexane	(CAS 110-54-3)	PEL	1800 mg/m3 500 ppm
Propane	(CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

**US. OSHA TABLE Z-2 (29 CFR 1910.1000)**

COMPONENTS	CAS #	TYPE	VALUE
Toluene	(CAS 108-88-3)	Ceiling TWA	300 ppm 200 ppm

**US. ACGIH THRESHOLD LIMIT VALUES**

COMPONENTS	CAS #	TYPE	VALUE
Acetone	(CAS 67-64-1)	STEL TWA	750 ppm 500 ppm
Butane	(CAS 106-97-8)	STEL	1000 ppm

Cyclohexane	(CAS 110-82-7)	TWA	100 ppm
Ethyl Alcohol	(CAS 64-17-5)	STEL	1000 ppm
n-Heptane	(CAS 142-82-5)	STEL	500 ppm
		TWA	400 ppm
n-Hexane	(CAS 110-54-3)	TWA	50 ppm
Toluene	(CAS 108-88-3)	TWA	20 ppm
<b>US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS COMPONENTS</b>			
	<b>CAS #</b>	<b>TYPE</b>	<b>VALUE</b>
Acetone	(CAS 111-76-2)	TWA	590 mg/m3
			250 ppm
Butane	(CAS 106-97-8)	TWA	1900 mg/m3
			800 ppm
Cyclohexane	(CAS 110-82-7)	TWA	1050 mg/m3
			300 ppm
Ethyl Alcohol	(CAS 64-17-5)	TWA	1900 mg/m3
			1000 ppm
n-Heptane	(CAS 142-82-5)	Ceiling	1800 mg/m3
			440 ppm
		TWA	350 mg/m3
			85 ppm
n-Hexane	(CAS 110-54-3)	TWA	180 mg/m3
			50 ppm
Propane	(CAS 74-98-6)	TWA	1800 mg/m3
			1000 ppm
Toluene	(CAS 108-88-3)	STEL	560 mg/m3
			150 ppm
		TWA	375 mg/m3
			100 ppm
<b>BIOLOGICAL LIMIT VALUES</b>			
<b>ACGIH BIOLOGICAL EXPOSURE INDICES:</b>			
<b>COMPONENTS</b>	<b>VALUE</b>	<b>DETERMINANT</b>	<b>SPECIMEN</b>
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedion, without hydrolysis	Urine
		o-Cresol, with hydrolysis	
Toluene (CAS 108-88-3)	0.3 mg/g	Toluene	Creatinine in urine
	0.03 mg/l	Toluene	Urine
	0.02 mg/l	Toluene	Blood
* - For sampling details, please see the source document.			
<b>EXPOSURE GUIDELINES</b>			
<b>US - California OELs: Skin designation</b>			
n-Hexane (CAS 110-54-3)	Can be absorbed through the skin.		
Toluene (CAS 108-88-3)	Can be absorbed through the skin.		
<b>US - Minnesota Haz Subs: Skin designation applies</b>			
Toluene (CAS 108-88-3)	Skin designation applies.		
<b>US ACGIH Threshold Limit Values: Skin designation</b>			
n-Hexane (CAS 110-54-3)	Can be absorbed through the skin.		
<b>APPROPRIATE ENGINEERING CONTROLS:</b>			
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. Provide eyewash station.			
<b>INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT :</b>			
			
<b>EYE PROTECTION:</b> Wear safety glasses with side shields (or goggles). Hand protection: Wear appropriate chemical resistant gloves.			
<b>SKIN PROTECTION OTHER:</b> Wear suitable protective clothing. Use of an impervious apron is recommended.			
<b>RESPIRATORY PROTECTION:</b> If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.			
<b>THERMAL HAZARDS:</b> Wear appropriate thermal protective clothing, when necessary.			
<b>GENERAL HYGIENE CONSIDERATIONS:</b> When using, do not eat, drink, or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.			

<b>9. Physical &amp; Chemical Properties</b>			
<b>APPEARANCE:</b>		<b>FLAMMABILITY:</b>	Not available.
<b>Physical State:</b>	Gas	<b>Flammability Limit-lower (%):</b>	2% estimated
<b>Form:</b>	Aerosol.	<b>Flammability Limit-upper (%):</b>	10.1% estimated.
<b>Color:</b>	Not available.	<b>Explosive Limit - lower (%):</b>	Not available.
<b>ODOR:</b>	Not available.	<b>Explosive Limit - upper (%):</b>	Not available.
<b>ODOR THRESHOLD:</b>	Not available.	<b>VAPOR PRESSURE:</b>	135.82 psig @70°F estimated
<b>pH:</b>	Not available.	<b>VAPOR DENSITY:</b>	Not available.
<b>MELTING/FREEZING POINT:</b>	Not available.	<b>RELATIVE DENSITY:</b>	Not available.

<b>BOILING POINT/RANGE:</b>	132.89°F (56.05°C) estimated	<b>SOLUBILITY (water):</b>	Not available.
<b>PARTITION COEFFICIENT (n-octanol/water):</b>	Not available.	<b>AUTO-IGNITION TEMP:</b>	500°F (260°C) estimated
<b>VISCOSITY:</b>	Not available.	<b>DECOMPOSITION TEMP:</b>	Not available.
<b>SPECIFIC GRAVITY:</b>	0.454 estimated	<b>EVAPORATION RATE:</b>	Not available.
<b>FLASH POINT:</b>	-156.0 °F (-104.4°C) propellant estimated		

## 10. Stability & Reactivity Information

### REACTIVITY:

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

### CHEMICAL STABILITY:

Material is stable under normal conditions.

### INCOMPATIBLE MATERIALS:

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

### POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization does not occur.

### CONDITIONS TO AVOID:

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### DECOMPOSITION PRODUCTS:

No hazardous decomposition products are known.

## 11. Toxicological Information

### INFORMATION ON LIKELY ROUTES OF EXPOSURE

**EYES:** Causes serious eye irritation.

**SKIN:** No adverse effects due to skin contact are expected.

**INHALATION:** May cause damage to organs through prolonged or repeated exposure by inhalation. Narcotic effects. Prolonged inhalation may be harmful.

**INGESTION:** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Dizziness. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### ACUTE TOXICITY:

May be fatal if swallowed and enters airways. Narcotic effects.

COMPONENTS	SPECIES	TEST RESULTS
<b>ACETONE (CAS 67-64-1)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
	Rabbit	> 9.4 ml/kg, 24 Hours
		> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		50.1 mg/l
<i>Oral</i>		
LD50	Rat	5800 mg/kg
		2.2 ml/kg
<b>BUTANE (CAS 106-97-8)</b>		
<b>Acute</b>		
<i>Inhalation</i>		
LD50	Mouse	1237 mg/l, 120 Minutes
	Rat	52 %, 120 Minutes
		1355 mg/l
<b>CYCLOHEXANE (CAS 110-82-7)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 32880 mg/m3, 4 Hours
		> 5540 ppm, 4 Hours
<b>ETHYL ALCOHOL (CAS 64-17-5)</b>		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Cat	85.41 mg/l, 4.5 Hours
	Mouse	43.68 mg/l, 6 Hours
		> 60000 ppm
		79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours
		51.3 mg/l, 6 Hours
<i>Oral</i>		
LD50	Monkey	6000 mg/kg
	Mouse	10500 ml/kg
	Rat	1187 - 2769 mg/kg

		7800 ml/kg
<b>N-HEPTANE (CAS 142-82-5)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LC50	Rabbit	> 2000 mg/kg, 4 Hours
<i>Inhalation</i>		
LD50	Rat	> 29.29 mg/l, 4 Hours
<b>N-HEXANE (CAS 110-54-3)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 4 Hours > 5 ml/kg, 4 Hours
<i>Inhalation</i>		
LC50	Rat	> 5000 ppm, 24 Hours > 31.86 mg/l 73860 ppm, 4 Hours
<i>Oral</i>		
LD50	Rat	24 ml/kg 24 g/kg 49 g/kg
	Wistar Rat	
<b>PROPANE (CAS 74-98-6)</b>		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat	1355 mg/l 658 mg/l/4h
<b>Solvent Naphtha (petroleum), Light Aliph. (CAS 64742-89-8)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 1900 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	> 5020 mg/m <sup>3</sup> , 4 Hours > 4980 mg/m <sup>3</sup> > 4980 mg/m <sup>3</sup> , 4 Hours > 4.96 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	4820 mg/kg
<b>TOLUENE (CAS 108-88-3)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Mouse	6405 - 7436 ppm, 6 Hours 5320 ppm, 8 Hours
	Rat	5879 - 6281 ppm, 6 Hours 12.5 - 28.8 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	5000 mg/kg

\* Estimates for product may be based on additional component data not shown.

**SKIN CORROSION/IRRITATION :**

Not applicable.

**SERIOUS EYE DAMAGE/EYE IRRITATION:**

Causes serious eye irritation.

**RESPIRATORY SENSITIZATION:**

Not available.

**SKIN SENSITIZATION:**

This product is not expected to cause skin sensitization.

**GERM CELL MUTAGENICITY:**

Not applicable.

**CARCINOGENIC INFORMATION:**

Risk of cancer cannot be excluded with prolonged exposure.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

**OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)**

Not listed.

**REPRODUCTIVE TOXICITY:**

Possible reproductive hazard. Suspected of damaging fertility or the unborn child.

**SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE:**

May cause drowsiness and dizziness.

**SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE:**

Not classified.

**ASPIRATION HAZARD :**

May be fatal if swallowed and enters airways.

**CHRONIC EFFECTS:**

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**12. Ecological Information****ECOTOXICITY:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

PRODUCT	SPECIES		TEST RESULTS
<b>DRI-LUB (CAS Mixture)</b>			
<b>Aquatic</b>			
Algae	IC50	Algae	21310.7539 mg/L, 72 Hours estimated
Crustacea	EC50	Daphnia	6978.1987 mg/L, 48 Hours estimated
Fish	LC50	Fish	20.1449 mg/L, 96 Hours estimated
COMPONENTS	SPECIES		TEST RESULTS
<b>ACETONE (CAS 67-64-1)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
<b>CYCLOHEXANE (CAS 110-82-7)</b>			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours
<b>ETHYL ALCOHOL (CAS 64-17-5)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	2350 mg/L, 48 Hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100.1 mg/l, 96 hours
<b>N-HEPTANE (CAS 142-82-5)</b>			
<b>Aquatic</b>			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours
<b>N-HEXANE (CAS 110-54-3)</b>			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
<b>TOLUENE (CAS 108-88-3)</b>			
<b>Aquatic</b>			
Algae	IC50	Algae	433.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	7.645 mg/L, 48 Hours
		Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
* Estimates for product may be based on additional component data not shown.			
<b>PERSISTENCE AND DEGRADABILITY:</b>			
No data is available on the degradability of this product.			
<b>BIOACCUMULATIVE POTENTIAL:</b>			
No data available.			
<b>Partition coefficient n-octanol / water (log Kow):</b>			
Acetone	-0.24		
Butane	2.89		
Cyclohexane	3.44		
Ethyl Alcohol	-0.31		
n-Heptane	4.66		
n-Hexane	3.9		
Propane	2.36		
Toluene	2.73		
<b>MOBILITY IN SOIL:</b>			
No data available.			
<b>OTHER ADVERSE EFFECTS:</b>			
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			

**13. Disposal Consideration****DISPOSAL INSTRUCTIONS:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**LOCAL DISPOSAL REGULATIONS:**

Dispose in accordance with all applicable regulations.

**HAZARDOUS WASTE CODE:**

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**US RCRA Hazardous Waste U List: Reference**

Acetone (CAS 67-64-1) U002  
 Cyclohexane (CAS 110-82-7) U056  
 Toluene (CAS 108-88-3) U220

**WASTE FROM RESIDUES / UNUSED PRODUCTS:**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**CONTAMINATED PACKAGING:**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

**14. Transportation Information****DOT**

**UN NUMBER:** UN1950

**UN PROPER SHIPPING NAME:** Aerosols, flammable

**TRANSPORT HAZARD CLASS(ES)**

**Class:** 2.1

**Subsidiary Risk:**

**Label(s):** 2.1

**PACKING GROUP:** Not applicable.

**SPECIAL PRECAUTIONS FOR USER:** Read safety instructions, SDS and emergency procedures before handling.

**SPECIAL PROVISIONS:** N82

**PACKAGING EXCEPTIONS:** 306

**PACKAGING NON BULK:** None.

**PACKAGING BULK:** None.



This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

**UN NUMBER:** UN1950

**UN PROPER SHIPPING NAME:** Aerosols, flammable

**TRANSPORT HAZARD CLASS(ES)**

**Class:** 2.1

**Subsidiary Risk:**

**Label(s):** 2.1

**PACKING GROUP:** Not applicable

**ENVIRONMENTAL HAZARDS:** Yes.

**ERG CODE:** 10L

**SPECIAL PRECAUTIONS FOR USER:** Read safety instructions, SDS and emergency procedures before handling.

**OTHER INFORMATION:**

**PASSENGER AND CARGO AIRCRAFT:** Allowed.

**CARGO AIRCRAFT ONLY:** Allowed.

**PACKAGING EXCEPTIONS:** LTD QTY

**IMDG**

**UN NUMBER:** UN1950

**UN PROPER SHIPPING NAME:** AEROSOLS

**TRANSPORT HAZARD CLASS(ES)**

**Class:** 2.1

**Subsidiary Risk:**

**Label(s):** 2.1

**PACKING GROUP:** Not applicable.

**ENVIRONMENTAL HAZARDS:**

**Marine pollutant:** Yes.

**EmS:** F-D, S-U

**SPECIAL PRECAUTIONS FOR USER:** Read safety instructions, SDS and emergency procedures before handling.

**PACKAGING EXCEPTIONS:** LTD QTY

**TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 and the IBC CODE:**

Not applicable.

**15. Regulatory Information****US FEDERAL REGULATIONS:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

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

Ammonium Hydroxide (CAS 1336-21-6)	Listed.
Cyclohexane (CAS 110-82-7)	Listed.
n-Hexane (CAS 110-54-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

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

Delayed Hazard -Yes

Fire Hazard - Yes

Pressure Hazard -No

No Reactivity Hazard -No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous Chemical:** No**SARA 313 (TRI reporting)**

CHEMICAL NAME	(CAS NUMBER)	% BY WT.
Cyclohexane	110-82-7	1 - 2.5
n-Hexane	110-54-3	0.1 - 1
Toluene	108-88-3	0.1 - 2.5

**OTHER FEDERAL REGULATIONS****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Acetone (CAS 67-64-1) 6532

Toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Acetone (CAS 67-64-1) 35 %WV

Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Acetone (CAS 67-64-1) 6532

Toluene (CAS 108-88-3) 594

**US STATE REGULATIONS****US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)

Cyclohexane (CAS 110-82-7)

Ethyl Alcohol (CAS 64-17-5)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)

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

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)

Cyclohexane (CAS 110-82-7)

Ethyl Alcohol (CAS 64-17-5)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)

Cyclohexane (CAS 110-82-7)

Ethyl Alcohol (CAS 64-17-5)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)

**US. Rhode Island RTK**

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)

Cyclohexane (CAS 110-82-7)

n-Hexane (CAS 110-54-3)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Toluene (CAS 108-88-3) Listed: January 1, 1991

**US - California Proposition 65 - CRT: Listed date/Female reproductive toxin**



**INTERNATIONAL INVENTORIES**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other Information**

**N/A = Not Applicable; N/D = Not Determined**

**DISCLAIMER:**

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.