


SAFETY DATA SHEET

1. Product and Company Identification			
PRODUCT NUMBER:	1760	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	T-LUBE	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Penetrating Clean Gel Lubricant with PTFE	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification			
GHS CLASSIFICATION: Physical Hazards: Flammable aerosol: Category 1 Health Hazard: Serious Eye Damage/Eye Irritation: Category 2A Specific Target Organ Toxicity - Single Exposure: Category 3 (Narcotic effect.) Specific Target Organ Toxicity - Repeated Exposure: Category 2 Aspiration Hazard: Category 1 Environmental Hazards: Acute hazards to the aquatic environment: Category 3	SIGNAL WORD: DANGER	SYMBOL:	
HAZARD STATEMENTS: Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Harmful to aquatic life.			
PRECAUTIONARY STATEMENTS: 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. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment. Response: 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 eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water/# If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. 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.			
HAZARDS NOT OTHERWISE SPECIFIED: None.			

3. Composition / Information on Ingredients		
Chemical Name	CAS	Concentration % by Weight
2-Propanone	67-64-1	20 - <50%
Petrolatum	8009-03-8	10 - <20%
Distillates (petroleum), Hydrotreated Light	64742-47-8	10 - <20%
Acetic acid, methyl ester	79-20-9	10 - <20%
Naphtha (petroleum), Hydrotreated Light	64742-49-0	5 - <10%
Carbon Dioxide	124-38-9	1 - <5%
Heptane	142-82-5	1 - <5%
Cyclohexane, methyl-	108-87-2	0.1 - <1%
Methanol	67-56-1	0.1 - <1%
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Composition Comments: The components are not hazardous or are below required disclosure limits. The exact concentration has been withheld as a trade secret.		

4. First Aid Measures
EMERGENCY OVERVIEW: EYES: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. SKIN: Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention. INHALATION: Move to fresh air. 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. PERSONAL PROTECTION FOR FIRST-AID RESPONDERS: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. 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: Symptoms may be delayed.

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 FIRE EXTINGUISHING MEDIA:

Use fire-extinguishing media appropriate for surrounding materials.

UNSUITABLE FIRE 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.

SPECIFIC FIRE-FIGHTING METHODS:

No data available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

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

6. Accidental Release Measures**PERSONAL PRECAUTIONS:**

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

ACCIDENTAL RELEASE MEASURES:

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:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:

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

7. Handling and Storage**TECHNICAL MEASURES (E.G. LOCAL AND GENERAL VENTILATION):**

No data available.

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.

CONTACT AVOIDANCE MEASURES:

No data available.

SAFE STORAGE AND 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 2

SAFE PACKAGING MATERIALS:

No data available.

STORAGE TEMPERATURE:

No data available.

8. Exposure Controls / Personal Protection**CONTROL PARAMETERS:****OCCUPATIONAL EXPOSURE LIMITS:**

Components	Type	Value	Source
2-Propanone	STEL	1,000 ppm 2,400 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	1,000 ppm 2,400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	250 ppm	US. ACGIH Threshold Limit Values, as amended
	TWA	750 ppm 1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	500 ppm	US. ACGIH Threshold Limit Values, as amended
	REL	250 ppm 590 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Petrolatum - Mist	STEL	10 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Petrolatum - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Petrolatum - Mist.	REL	5 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Distillates (petroleum), hydrotreated light	REL	100 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m ³	US. ACGIH Threshold Limit Values, as amended
	TWA	200 mg/m ³	US. ACGIH Threshold Limit Values, as amended

Acetic acid, methyl ester	REL	200 ppm	610 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	250 ppm	760 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	200 ppm	610 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm	610 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	250 ppm	760 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Naphtha (petroleum), hydrotreated light	REL	100 ppm	400 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	400 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	100 ppm	400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Carbon dioxide	TWA	5,000 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	30,000 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	30,000 ppm	54,000	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	5,000 ppm	9,000 mg/m ³	
	PEL	5,000 ppm	9,000 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10,000 ppm	18,000	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Heptane	STEL	30,000 ppm	54,000	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm	1,600 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	85 ppm	350 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	500 ppm	2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	500 ppm	2,000 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm		US. ACGIH Threshold Limit Values, as amended
Cyclohexane, methyl-	500 ppm			US. ACGIH Threshold Limit Values, as amended
	Ceil Time	440 ppm	1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	500 ppm	2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	400 ppm	1,600 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	400 ppm	1,600 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Methanol	STEL	250 ppm	325 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	250 ppm	325 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	200 ppm	260 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	200 ppm	260 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Benzene, methyl-	TWA	200 ppm	260 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	150 ppm	560 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	375 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	375 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Hexane	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC.	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	STEL	150 ppm	560 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	50 ppm	180 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	500 ppm	1,800 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	REL	50 ppm	180 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Cyclohexane	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	300 ppm	1,050 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	300 ppm	1,050 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, ethyl-	PEL	300 ppm	1,050 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	125 ppm	545 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	100 ppm	435 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	125 ppm	545 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm	435 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Benzene	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended

TWA	0.5 ppm	US. ACGIH Threshold Limit Values, as amended
STEL	2.5 ppm	US. ACGIH Threshold Limit Values, as amended
STEL	5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
OSHA_ACT	0.5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
TWA	10 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
MAX. CONC	50 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
STEL	5 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
TWA	1 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
STEL	1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

BIOLOGICAL LIMIT VALUES:

Chemical Identity	Exposure Limit Values	Source
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 µg/g (Creatinine in urine)	ACGIH BEL
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 µg/g (Creatinine in urine)	ACGIH BEL

Exposure Guidelines

Distillates (petroleum), hydrotreated light	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Methanol	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Hexane	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Benzene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Hand Protection: No data available. Hand Protection: No data available. Skin and Body Protection: Wear suitable protective clothing.

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

General Hygiene Considerations: Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke.

APPROPRIATE ENGINEERING CONTROLS:

No data available.

9. Physical & Chemical Properties

Physical State:	Liquid.	Flammability(solid/gas):	No data available.
Form:	Spray aerosol.	Flammability Limit-lower (%):	No data available.
Color:	No data available.	Flammability Limit-upper (%):	No data available.
Odor:	No data available.	Explosive Limit-Lower (%):	No data available.
Odor Threshold:	No data available.	Explosive Limit-Upper (%):	No data available.
pH:	No data available.	Vapor Density (air=1):	No data available.
Freezing Point:	No data available.	Vapor Pressure:	No data available.
Boiling Point:	No data available.	Relative Density:	No data available.
Density:	No data available.	Solubility (water):	No data available.
Flash Point:	Estimated -17°C	Solubility (other):	No data available.
Evaporation Rate:	No data available.	Decomposition Temp:	No data available.
Partition Coeff(n-octanol/water):	No data available.	Self-Ignition Temperature:	No data available.
Kinematic viscosity:	No data available.	Explosive Properties:	No data available.
Dynamic viscosity:	No data available.	Oxidizing Properties:	No data available.

10. Stability & Reactivity Information

REACTIVITY:

No data available.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

No data available.

CONDITIONS TO AVOID:

Avoid heat or contamination.

INCOMPATIBLE MATERIALS:

No data available.

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

11. Toxicological Information**PRIMARY ROUTE OF EXPOSURE:****Eyes:** No data available.**Skin:** No data available.**Inhalation:** No data available.**Ingestion:** No data available.**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:****Eyes:** No data available.**Skin:** No data available.**Inhalation:** No data available.**Ingestion:** No data available.**ACUTE TOXICITY (List all possible routes of exposure):****Oral Product:** Not classified for acute toxicity based on available data.**Dermal Product:** ATEmix: 361,663.65 mg/kg**Inhalation Product:** ATEmix: 280.29 mg/l Dusts, mists and fumes**REPEATED DOSE TOXICITY:****Product:** No data available.**2-Propanone:**

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

Petrolatum:

NOAEL (Rat(Female, Male), Dermal, 13 Weeks): > 2,000 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study

Distillates (Petroleum), Hydrotreated Light:NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m³ Inhalation Experimental result, Key study

NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study

Acetic acid, methyl ester:

NOAEL (Rat(Female, Male), Inhalation, 28 d): 350 ppm(m) Inhalation Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, 28 d): 2,000 ppm(m) Inhalation Experimental result, Key study

Naphtha (Petroleum), Hydrotreated Light:NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m³ Inhalation Experimental result, Key studyLOAEL (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**Heptane:**NOAEL (Rat(Male), Inhalation): 12,470 mg/m³ Inhalation Experimental result, Key study**Cyclohexane, methyl-:**NOAEL (Rat(Female, Male), Inhalation): 1,600 mg/m³ Inhalation Experimental result, Key study

LOAEL (Rat(Female, Male), Oral, 28 d): 1,000 mg/kg Oral Experimental result, Key study

NOAEL (Rat(Female, Male), Oral, 28 d): 250 mg/kg Oral Experimental result, Key study

Methanol:

LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation Experimental result, Supporting study

SKIN CORROSION/IRRITATION:**Product:** No data available.**Components:****2-Propanone:**

in vivo (Rabbit): Not irritant.

Petrolatum:

in vivo (Rabbit): Not irritant.

Distillates (petroleum), Hydrotreated Light:

in vivo (Rabbit): Not irritant

Acetic acid, methyl ester:

in vivo (Rabbit): Not irritant

Naphtha (petroleum), hydrotreated light:

In vitro (Human): not corrosive

Heptane:

in vivo (Rabbit): Irritating

Cyclohexane, methyl-:

estimated Irritating.

Methanol:

in vivo (Rabbit): Not irritant

SERIOUS EYE DAMAGE/EYE IRRITATION:**Product:** No data available.**Specified Substance(s):****Components:****2-Propanone:**

Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant

Petrolatum:

Rabbit, 24 - 72 hrs: Not irritating.

Distillates (petroleum), Hydrotreated Light:

Rabbit, 24 - 72 hrs: Not irritating

Acetic acid, methyl ester:

Rabbit: Irritating

Naphtha (petroleum), hydrotreated light:

Rabbit, 24 - 72 hrs: Not irritating

Heptane:

Rabbit, 24 - 72 hrs: Not irritating

Cyclohexane, methyl-:

Rabbit, 0.5 - 168 hrs: Not irritating

RESPIRATORY OR SKIN SENSITIZATION:**Product:** No data available.**2-Propanone:**

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

Petrolatum:

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

Distillates (petroleum), Hydrotreated Light:

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

Acetic acid, methyl ester:

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

Naphtha (petroleum), hydrotreated light:

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

Heptane:

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

Cyclohexane, methyl-:

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

Methanol:

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

CARCINOGENICITY:**Product:** No data available.**Components:** Cyclohexane, methyl-: May cause cancer.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:** No carcinogenic components identified.**US. National Toxicology Program (NTP) Report on Carcinogens:** No carcinogenic components identified.**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** No carcinogenic components identified.**GERM CELL MUTAGENICITY:****In Vitro Product:** No data available.**In Vivo Product:** No data available.**REPRODUCTIVE TOXICITY:****Product:** No data available.**SPECIFIC TARGET ORGAN TOXICITY - single exposure:****Product:** No data available.**Components:****2-Propanone**

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

Heptane

Narcotic effect. - Category 3 with narcotic effects.

Cyclohexane, methyl-

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

Methanol

Causes damage to organs.

SPECIFIC TARGET ORGAN TOXICITY - repeated exposure:**Product:** No data available**Components:****Cyclohexane, methyl-**

Category 1

Target Organs:

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

ASPIRATION HAZARD:**Product:** No data available.**Components:****Distillates (petroleum), hydrotreated light:** May be fatal if swallowed and enters airways.**Naphtha (petroleum), hydrotreated light:** May be fatal if swallowed and enters airways.**Heptane:** May be fatal if swallowed and enters airways.**Cyclohexane, methyl- :** May be fatal if swallowed and enters airways.**OTHER EFFECTS:**

No data available.

12. Ecological Information**ECOTOXICITY:****ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT:****FISH****Product:** No data available.**Components**

2-Propanone	LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study
Petrolatum	NOAEL (Pimephales promelas, 96 h): >= 100 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Acetic acid, methyl ester	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l Mortality LC 50 (Danio rerio, 48 h): 250 - 350 mg/l Experimental result, Key study
Acetic acid, methyl ester	LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Heptane	LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality
Cyclohexane, methyl-	LC 50 (Oryzias latipes, 96 h): 2.07 mg/l Experimental result, Key study
Methanol	EC 50 (Lepomis macrochirus, 96 h): 12,700 mg/l Experimental result, Key study

AQUATIC INVERTEBRATES:**FISH****Product:** No data available.**Components**

2-Propanone	LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study
Petrolatum	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Acetic acid, methyl ester	EC 50 (Daphnia magna, 48 h): 1,026.7 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
Heptane	EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study
Methanol	EC 50 (Daphnia magna, 96 h): 18,260 mg/l Experimental result, Key study

CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT:**FISH****Product:** No data available.**Components**

Distillates (petroleum), hydrotreated light	NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
Naphtha (petroleum), hydrotreated light	NOAEL (Daphnia magna): 2.6 mg/l Other, Key study
Heptane	NOAEL (Oncorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study
Methanol	EC 50 (Oryzias latipes): 9,164 mg/l Experimental result, Supporting study

AQUATIC INVERTEBRATES:**FISH****Product:** No data available.**Components**

2-Propanone	LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna, 48 h): 10 mg/l Experimental result, 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
Methanol	NOAEL (Daphnia magna): 122 mg/l Experimental result, Supporting study

TOXICITY TO AQUATIC PLANTS**Product:** No data available.**PERSISTENCE AND DEGRADABILITY:****Biodegradation Product:** No data available.**Components**

2-Propanone	90.9% (28 d) Detected in water. Experimental result, Key study
Petrolatum	31% (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study
Distillates (petroleum), hydrotreated light	61% Detected in water. Experimental result, Supporting study
Acetic acid, methyl ester	70% Detected in water. Experimental result, Key study
Naphtha (petroleum), hydrotreated light	90.35% (28 d) Detected in water. Experimental result, Supporting study
Heptane	70% Detected in water. Experimental result, Key study
Cyclohexane, methyl-	> 0% (28 d) Detected in water. Experimental result, Weight of Evidence study
Methanol	> 0% (28 d) Detected in water. Experimental result, Weight of Evidence study 97% Detected in water. Experimental result, Key study

BOD/COD RATIO:**Product:** No data available.**BIOACCUMULATIVE POTENTIAL:****Bio-concentration Factor (BCF):****Product:** No data available.**Components**

2-Propanone	Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified
Naphtha (petroleum), hydrotreated light	Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study
Heptane	Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study
Cyclohexane, methyl-	Cyprinus carpio, Bioconcentration Factor (BCF): > 95 - < 321 Aquatic sediment Experimental result, Key study
Methanol	Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Experimental result, Supporting study

PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):**Product:** No data available.**Components**

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

MOBILITY IN SOIL:

No data available.

Components:

2-Propanone:	No data available.
Petrolatum:	No data available.
Distillates (Petroleum), Hydrotreated Light:	No data available.
Acetic acid, methyl ester	No data available.
Naphtha (Petroleum), Hydrotreated Light:	No data available.
Carbon Dioxide:	No data available.
Heptane:	No data available.
Cyclohexane, methyl-:	No data available.
Methanol:	No data available.

OTHER ADVERSE EFFECTS:

Harmful to aquatic organisms.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Discharge, treatment, or disposal may be subject to national, state or local laws.

CONTAMINATED PACKAGING:

No data available.

14. Transportation Information

DOT: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable.
Transport Hazard Class(es):
Class: 2.1
Label(s): -
Packing Group: II
Special Precautions for User: Not regulated.

IATA: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable.
Transport Hazard Class(es):
Class: 2.1
Label(s): -
Packing Group: -
Special Precautions For User: Not regulated.
Other Information:
Passenger and Cargo Aircraft: Allowed. 203
Cargo Aircraft Only: Allowed. 203

IMDG: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable.
Transport Hazard Class(es):
Class: 2
Label(s): -
EmS No:
Packing Group: -
Special Precautions For User: Not regulated.

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

Restrictions on use: Not known.

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

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

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

Chemical Identity

Benzene

OSHA Hazard(s)

Flammability
Cancer
Aspiration
Eye
Blood
Skin
Respiratory Tract Irritation
Central Nervous System

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

Acetone
Distillates (petroleum), hydrotreated light
RCRA Hazardous Waste No. D001
Acetic acid, methyl ester
Unlisted Hazardous Wastes Characteristic of Ignitability
Methanol
Methyl Alcohol
Benzene, Methyl-
Hexane
Cyclohexane
Benzene, Hexahydro-
Ethylbenzene

Benzene

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

Hazard Categories:

Flammable aerosol, Serious Eye Damage/Eye Irritation, Specific Target Organ Toxicity - Single Exposure, Specific Target Organ Toxicity - Repeated Exposure, Aspiration Hazard

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

None present or none present in regulated quantities.

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: For more information go to www.P65Warnings.ca.gov.

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

Chemical Identity

2-Propanone
Petrolatum
Distillates (petroleum), hydrotreated light
Acetic acid, methyl ester
Naphtha (petroleum), hydrotreated light
Carbon dioxide
Heptane

US. Massachusetts RTK - Substance List:

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

US. Pennsylvania RTK - Hazardous Substances:

Chemical Identity

2-Propanone
Petrolatum
Distillates (petroleum), hydrotreated light
Acetic acid, methyl ester
Naphtha (petroleum), hydrotreated light
Mineral Oil
Carbon dioxide
Heptane

US. Rhode Island RTK:

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

INTERNATIONAL REGULATIONS:

Montreal Protocol

2-Propanone
Distillates (Petroleum), Hydrotreated Light
Acetic acid, methyl ester

Stockholm Convention

2-Propanone
Distillates (Petroleum), Hydrotreated Light
Acetic acid, methyl ester

Rotterdam Convention

2-Propanone
Distillates (Petroleum), Hydrotreated Light
Acetic acid, methyl ester

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	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory	On or in compliance with the inventory.

16. Other Information

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.