



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1714	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	MOLY LUB	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Aerosol Anti-seize Lubricant	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

Physical Hazards: Flammable Aerosols: Category 1
Health Hazards: Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A
Carcinogenicity: Category 2
Toxic to Reproduction: Category 2
Specific Target Organ Toxicity – Single Exposure: Category 3 (Narcotic effect.)
Aspiration Hazard: Category 1
Environmental Hazards: Acute hazards to the aquatic environment: Category 3
Chronic hazards to the aquatic environment: Category 3

SIGNAL WORD:
DANGER

SYMBOL:



HAZARD STATEMENTS:

Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. 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. Specific treatment (see on this label). Take off contaminated clothing.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

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
Butane	106-97-8	20 - <50%
2-Propanone	67-64-1	20 - <50%
Propane	74-98-6	5 - <10%
Solvent naphtha (petroleum), light aliph.	64742-89-8	5 - <10%
Naphtha (petroleum), heavy alkylate	64741-65-7	5 - <10%
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	1 - <5%
Benzene, methyl-	108-88-3	3 - <5%
Heptane	142-82-5	1 - <5%
Heptane, branched, cyclic and linear	426260-76-6	2.5 - <5%
Naphtha (petroleum), hydrotreated light	64742-49-0	1 - <5%
2-Propanol	67-63-0	1 - <5%
Molybdenum sulfide (MoS ₂)	1317-33-5	1 - <5%

* 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: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical 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. 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.

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.

MATERIALS AND METHODS FOR CLEANUP:

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

ENVIRONMENTAL PRECAUTIONS:

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

7. Handling and Storage

TECHNICAL MEASURES (E.G. LOCAL AND GENERAL VENTILATION):

No data available.

SAFE HANDLING:

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 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. Avoid contact with skin.

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 3

Safe Packaging Materials: No data available.

Storage Temperatures: No data available.

8. Exposure Controls / Personal Protection

CONTROL PARAMETERS:

Occupational Exposure Limits:

Chemical Identity:	Type	Exposure Limit Values		Source
Butane	REL	800 ppm	1,900 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	800 ppm	1,900 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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
Propane	REL	1,000 ppm	1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm	1,800 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Solvent naphtha (petroleum), light aliph.	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
	REL	100 ppm	400 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Naphtha (petroleum), heavy alkylate	PEL	100 ppm	400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	100 ppm	400 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	400 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Talc (Mg ₃ H ₂ (SiO ₃) ₄) - Respirable fraction.	TWA		2 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Talc (Mg ₃ H ₂ (SiO ₃) ₄) - Respirable.	REL		2 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Talc (Mg ₃ H ₂ (SiO ₃) ₄) - Respirable dust.	TWA		2 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	TWA	20 millions of particles per cubic foot of air		US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Talc (Mg ₃ H ₂ (SiO ₃) ₄) - Respirable.	TWA	2.4 millions of particles per cubic foot of air		US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		0.1 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Benzene, methyl-	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
	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
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
Heptane	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
	STEL	500 ppm		US. ACGIH Threshold Limit Values, as amended
	Ceil Time	440ppm	1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
2-Propanol	STEL	500 ppm	1,225 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	400 ppm	980 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	400 ppm	980 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	400 ppm	980 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	500 ppm	1,225 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Molybdenum sulfide (MoS ₂) - Respirable fraction. - as Mo	TWA		3 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Molybdenum sulfide (MoS ₂) - Inhalable fraction. - as Mo	TWA		10 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Molybdenum sulfide (MoS ₂) - Total dust. - as Mo	PEL		15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA		10 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
1,2-Ethanediol	Ceiling	50 ppm	125 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
1,2-Ethanediol - Vapor fraction	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	50 ppm		US. ACGIH Threshold Limit Values, as amended
1,2-Ethanediol - Aerosol, inhalable.	STEL		10 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Benzene, 1,2,4-trimethyl-	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	25 ppm	125 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	25 ppm	125 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Proprietary	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Dolomite (CaMg(CO ₃) ₂) - Respirable fraction.	TWA	15 millions of particles per cubic foot of air		US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Dolomite (CaMg(CO ₃) ₂) - Inhalable particles.	TWA		10 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Dolomite (CaMg(CO ₃) ₂) - Total dust.	TWA		15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	50 millions of particles per cubic foot of air		US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		15 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Dolomite (CaMg(CO ₃) ₂) - Respirable	TWA		3 mg/m ³	US. ACGIH Threshold Limit Values, as amended

particles.				
Dolomite (CaMg(CO ₃) ₂) - Respirable fraction.	TWA		5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbonic acid, magnesium salt (1:1) - Total	REL		10 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Carbonic acid, magnesium salt (1:1) - Respirable fraction.	TWA		5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbonic acid, magnesium salt (1:1) - Respirable.	REL		5 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Carbonic acid, magnesium salt (1:1) - Total dust.	PEL		15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA		15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Carbonic acid, magnesium salt (1:1) - Respirable fraction.	PEL		5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Benzene	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
Benzene, (1-methylethyl)-	REL	50 ppm	245 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended
	PEL	50 ppm	245 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	50 ppm	245 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	1 ppm		US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended
Benzene, ethyl-	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
	TWA	20 ppm		US. ACGIH Threshold Limit Values, 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
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
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (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
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL

EXPOSURE GUIDELINES:

Chemical Identity	Exposure Limit Values	Source
Benzene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

APPROPRIATE ENGINEERING CONTROLS:

No data available.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:



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

Skin Protection: Hand Protection: No data available.

Skin and Body Protection: 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.

General Hygiene Considerations: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. 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.

9. Physical & Chemical Properties

Physical State:	Liquid.	Flammability (solid/gas):	No data available.
Form:	Spray Aerosol.	Explosive Limit – lower (%):	No data available.
Color:	No data available.	Explosive Limit – upper (%):	No data available.
Odor:	No data available.	Vapor Pressure:	3,102 - 3,792 hPa (20°C)
Odor Threshold:	No data available.	Vapor Density (air=1):	No data available.
pH:	No data available.	Density:	No data available.
Freezing Point:	No data available.	Relative Density:	No data available.
Boiling Point:	No data available.	Solubility (water):	No data available.
Partition Coeff (n-octanol/water):	No data available.	Solubility (other):	No data available.
Dynamic Viscosity:	No data available.	Self-Ignition Temperature:	No data available.
Kinematic Viscosity:	No data available.	Decomposition Temperature:	No data available.
Flash Point:	Estimated -104.4°C	Evaporation Rate:	No data available.
Oxidizing Properties:	No data available.	Explosive 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.

INCOMPATIBLE MATERIALS:

No data available.

CONDITIONS TO AVOID:

Avoid heat or contamination

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

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.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY (list all possible routes of exposure):

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

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

Inhalation Product: ATEmix: 136.36 mg/l Vapour

REPEATED DOSE TOXICITY:

Product: No data available.

Components:

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
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
Solvent naphtha (petroleum), light aliph.	NOAEL (Mouse, Rat(Female, Male), Inhalation, 107 - 113 Weeks): 1,402 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 5 - 28 d): 3,750 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study
Benzene, methyl-	LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental result, Key study
Heptane	NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental result, Key study
Naphtha (petroleum), hydrotreated light	NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Read-across based on grouping of substances (category approach), Key study NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study

2-Propanol NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation Experimental result, Key study

SKIN CORROSION/IRRITATION:

Product: No data available.

Components:

2-Propanone	in vivo (Rabbit): Not irritant
Solvent naphtha (petroleum), light aliph.	Assessment Non-Irritating
Benzene, methyl-	in vivo (Rabbit): Irritating
Heptane	in vivo (Rabbit): Irritating
Heptane, branched, cyclic and linear	Assessment Irritating.
Naphtha (petroleum), hydrotreated light	Assessment Non-Irritating
2-Propanol	In vitro (Human): not corrosive
Molybdenum sulfide (MoS2)	in vivo (Rabbit): Not Classified
	Not irritant

SERIOUS EYE DAMAGE/EYE IRRITATION:

Product: No data available.

Components:

2-Propanone	Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant
Solvent naphtha (petroleum), light aliph.	Rabbit: Not irritating
Benzene, methyl-	Rabbit, 24 - 72 hrs: Not irritating
Heptane	Rabbit, 24 - 72 hrs: Not irritating
Naphtha (petroleum), hydrotreated light	Rabbit, 24 - 72 hrs: Not irritating
2-Propanol	Rabbit, 1 d: Category 2: Causes serious eye irritation

RESPIRATORY OR SKIN SENSITIZATION:

Product: No data available.

Components:

2-Propanone	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Solvent naphtha (petroleum), light aliph.	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Benzene, methyl-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Heptane	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Naphtha (petroleum), hydrotreated light	Skin sensitization:, in vivo (Guinea pig): Non sensitising
2-Propanol	Skin sensitization:, in vivo (Guinea pig): Non sensitising

CARCINOGENICITY:

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Talc Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
(Mg3H2(SiO3)4) Overall evaluation: 2B. Possibly carcinogenic to humans.

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

Talc Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.
(Mg3H2(SiO3)4) Overall evaluation: 2B. Possibly carcinogenic to humans.

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.

Components:

Benzene, methyl-	Suspected of damaging fertility or the unborn child.
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SPECIFIC TARGET ORGAN TOXICITY -single exposure:

Product: No data available.

Components:

2-Propanone	Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.
Benzene, methyl-	Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.
Heptane	Narcotic effect. - Category 3 with narcotic effects.
2-Propanol	Narcotic effect. - Category 3 with narcotic effects.

SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:

Product: No data available.

Components:

Benzene, methyl-	Category 2
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Target Organs: Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

ASPIRATION HAZARD

Product: No data available.

Components:

Solvent naphtha (petroleum), light aliph.	May be fatal if swallowed and enters airways.
Naphtha (petroleum), heavy alkylate	May be fatal if swallowed and enters airways.
Benzene, methyl-	May be fatal if swallowed and enters airways.
Heptane	May be fatal if swallowed and enters airways.

Heptane, branched, cyclic and linear
Naphtha (petroleum), hydrotreated light
OTHER EFFECTS:
No data available.

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

12. Ecological Information

ECOTOXICITY:

ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT:

FISH

Product: No data available.

Components:

Butane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
2-Propanone	LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Benzene, methyl-	LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study
Heptane	LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality
Naphtha (petroleum), hydrotreated light	LC 50 (96 h): 8.41 mg/l Experimental result, Key study
2-Propanol	LC 50 (Pimephales promelas, 96 h): 9,640 mg/l Experimental result, Key study

AQUATIC INVERTEBRATES:

Product: No data available.

Components:

Butane	LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
2-Propanone	LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study
Solvent naphtha (petroleum), light aliph.	EC 50 (Daphnia magna, 48 h): 32 mg/l Experimental result, Supporting study
Benzene, methyl-	LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality
	LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study
Heptane	EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
2-Propanol	LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study

CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT:

FISH

Product: No data available.

Components:

Benzene, methyl-	NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study
	LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study
Heptane	NOAEL (Oncorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study
Naphtha (petroleum), hydrotreated light	NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

AQUATIC INVERTEBRATES:

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
Benzene, methyl-	LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study
	NOAEL (Ceriodaphnia dubia): 0.74 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
Heptane, branched, cyclic and linear	NOEC : < 1 mg/l estimation
Naphtha (petroleum), hydrotreated light	EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study

TOXICITY TO AQUATIC PLANTS:

Product: No data available.

PERSISTENCE AND DEGRADABILITY:

Biodegradation Product: No data available.

Components:

Butane	100% (385.5 h) Detected in water. Experimental result, Key study
2-Propanone	100% (385.5 h) 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
Solvent naphtha (petroleum), light aliph.	90.35% (28 d) Detected in water. Experimental result, Supporting study
Benzene, methyl-	100% (14 d) Detected in water. Experimental result, Weight of Evidence study
	86% Detected in water. Experimental result, Weight of Evidence study
Heptane	70% Detected in water. Experimental result, Key study
Naphtha (petroleum), hydrotreated light	90.35% (28 d) Detected in water. Experimental result, Supporting study
2-Propanol	53% (5 d) Detected in water. Experimental result, Key study

BOD/COD Ratio:

Product: No data available.

BIOACCUMULATIVE POTENTIAL:**Bioconcentration Factor (BCF):**

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
Solvent naphtha (petroleum), light aliph.	Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study
Benzene, methyl-	Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment Experimental result, Key study
Heptane	Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study
Naphtha (petroleum), hydrotreated light	Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key 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
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MOBILITY IN SOIL:**Components:**

Butane	No data available.
2-Propanone	No data available.
Propane	No data available.
Solvent naphtha (petroleum), light aliph.	No data available.
Naphtha (petroleum), heavy alkylate	No data available.
Talc (Mg3H2(SiO3)4)	No data available.
Benzene, methyl-	No data available.
Heptane	No data available.
Heptane, branched, cyclic and linear	No data available.
Naphtha (petroleum), hydrotreated light	No data available.
2-Propanol	No data available.
Molybdenum sulfide (MoS2)	No data available.

OTHER ADVERSE EFFECTS:

Toxic 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): -
EmS No.:



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:

<u>Chemical Identity:</u>	<u>OSHA Hazard(s)</u>
Benzene	Flammability Cancer Aspiration Eye Blood Skin Respiratory Tract Irritation Central Nervous System

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity:

UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY

RCRA HAZARDOUS WASTE NO. D001

ACETONE

BENZENE, METHYL-

ETHYLENE GLYCOL

BENZENE

BENZENE, 1-METHYLETHYL-

CUMENE

ETHYLBENZENE

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT of 1986 (SARA):

Hazard Categories: Flammable aerosol, Skin Corrosion/Irritation, Serious Eye Damage/Eye Irritation, Carcinogenicity, Toxic to reproduction, Specific Target Organ Toxicity - Single 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:

<u>Chemical Identity:</u>	<u>% by weight</u>
Benzene,	1.0%
2-Propanol	1.0%

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:

Butane

2-Propanone

Propane

Solvent naphtha (petroleum), light aliph.

Naphtha (petroleum), heavy alkylate

Talc (Mg₃H₂(SiO₃)₄)

Benzene, methyl-

Naphtha (petroleum), hydrotreated light

Heptane

2-Propanol

US. Massachusetts RTK - Substance List:

Chemical Identity:

Benzene

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

Chemical Identity:

Butane

2-Propanone

Propane

Solvent naphtha (petroleum), light aliph.

Naphtha (petroleum), heavy alkylate

Talc (Mg₃H₂(SiO₃)₄)

Benzene, methyl-

Naphtha (petroleum), hydrotreated light

Heptane

2-Propanol

US. Rhode Island RTK:

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

INTERNATIONAL REGULATIONS:**Montreal Protocol:**

2-Propanone

Stockholm Convention:

2-Propanone

Rotterdam Convention:

2-Propanone

Kyoto Protocol**INVENTORY STATUS:**

Australia AICS	Not in compliance with the inventory.
Canada DSL Inventory List	Not in compliance with the inventory.
Canada NDSL Inventory	Not in compliance with the inventory.
Ontario Inventory	Not in compliance with the inventory.
China Inv. Existing Chemical Substances	Not in compliance with the inventory.
Japan (ENCS) List	Not in compliance with the inventory.
Japan ISHL Listing	Not in compliance with the inventory.
Japan Pharmacopoeia Listing	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI)	Not in compliance with the inventory.
Mexico INSQ	Not in compliance with the inventory.
New Zealand Inventory of Chemicals	Not in compliance with the inventory.
Philippines PICCS	Not in compliance with the inventory.
Taiwan Chemical Substance Inventory	Not in compliance with the inventory.
US TSCA Inventory	On or in compliance with the inventory.
EINECS, ELINCS or NLP	Not 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.