

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Lubrizer**

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Fuel additive
Restriction on use: None known

Chemical family

: Mixture of: Hydrocarbons; Alcohols

Name, address, and telephone number of the supplier:

Lubriformance

P.O. Box 1487
2021 Reserve Dr.
Canton, TX, USA
75103

Supplier's Telephone # : (833) TNT-FUEL (868-3835)

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear green liquid. Hydrocarbon odour.

Most important hazards: May be fatal if swallowed and enters airways. Causes serious eye damage.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Serious eye damage/eye irritation - Category 1

Aspiration Toxicity - Category 1

Label elements

Hazard pictogram(s)



Signal Word

Danger.

Hazard statement(s)

May be fatal if swallowed and enters airways.

Causes serious eye damage.

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Precautionary statement(s)

Wear eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a poison center/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Inhalation of mist causes irritation of respiratory system. Direct eye contact may cause slight or mild, transient irritation.

Prolonged skin contact may cause skin irritation. Ingestion may cause irritation of the mouth, throat and stomach.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Hydrotreated light naphthenic distillate	Petroleum hydrocarbon	64742-53-6	80.0 - 100.0
2-Methylpropan-1-ol	Isobutyl alcohol 2-methylpropan-1-ol Isopropylcarbinol IBA	78-83-1	5.0 - 10.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Seek immediate medical attention/advice.
- Inhalation* : First Aid is normally not required. If INHALED excessively remove to fresh air. Get medical attention if irritation develops and persists.
- Skin contact* : Wash with plenty of water and soap. Do not use solvents. Remove and wash contaminated clothing before re-use. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Flush with large amounts of water for 15 minutes. If easy to do, remove contact lens, if worn. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

- : Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Causes serious eye damage. Symptoms may include stinging, tearing, redness and swelling. Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing. Ingestion may cause irritation of the mouth, throat and stomach. Prolonged skin contact may cause skin irritation.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically. Aspiration hazard.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : None known.

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Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon oxides and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Normal protective clothing (bunker gear) may not be adequate. A full-body encapsulating chemical protective suit may be necessary.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Small Spills: Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).
Large Spills: For large spills on surfaces other than pavement (e.g. soil or sand), spills may be handled by digging up and removing the affected surface and placing it in approved containers. Notify the appropriate authorities as required.

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flames. Avoid contact with incompatible materials. Wash thoroughly after handling.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials : Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Hydrotreated light naphthenic distillate	5 mg/m ³ (As 'Oil mist, mineral') (inhalable)	N/Av	5 mg/m ³ (As 'Oil mist, mineral')	N/Av
2-Methylpropan-1-ol	50 ppm	N/Av	100 ppm (300 mg/m ³)	N/Av

Exposure controls**Ventilation and engineering measures**

: Use in a well-ventilated area. General mechanical ventilation and local exhaust is recommended for use with this product.

Respiratory protection

: Not required under normal conditions of handling. Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists.

Skin protection

: Not required under normal conditions of handling. For prolonged skin exposure, gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye / face protection

: Safety glasses with side shields should be used with this product. Chemical goggles are recommended when there is a potential for splashing. Do not wear contact lenses.

Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear green liquid.

Odour : Hydrocarbon odour.

Odour threshold : Not available.

pH : Not available.

Melting Point/Freezing point : Not available.

Initial boiling point and boiling range

: > 271.5°C

Flash point : > 146°C

Flashpoint (Method) : Cleveland Open Cup

Evaporation rate (BuAe = 1) : Not available.

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: Not available.

Upper flammable limit (% by vol.)

: Not available.

Oxidizing properties : None reasonably foreseeable.

Explosive properties : Not available.

Vapour pressure : Not available.

Vapour density : Not available.

Relative density / Specific gravity

: Not available.

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Solubility in water : Insoluble.
Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
 : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : 0.0995 cm²/s @ 40°C
Volatiles (% by weight) : Not available.
Volatile organic Compounds (VOC's)
 : Not applicable.
Absolute pressure of container
 : Not applicable.
Flame projection length : Not applicable.
Other physical/chemical comments
 : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions
 : Hazardous polymerization does not occur.
Conditions to avoid : Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
Incompatible materials : Oxidizing agents.
Hazardous decomposition products
 : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption
 : YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract.

Sign and symptoms ingestion

: Aspiration hazard. May be fatal if swallowed and enters airways. May cause irritation of mouth, throat, and stomach. May cause nausea, stomach pain and vomiting.

Sign and symptoms skin

: May cause skin irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.

Sign and symptoms eyes

: Causes serious eye damage. Symptoms may include stinging, tearing, redness and swelling. Permanent eye damage including blindness could result.

Potential Chronic Health Effects

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

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Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : Not classified as a specific target organ toxicity - repeated exposure. Not classified as a specific target organ toxicity-single exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials : None known or reported by the manufacturer.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	LC₅₀(4hr)	LD₅₀	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Hydrotreated light naphthenic distillate	≥ 2.18 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg
2-Methylpropan-1-ol	> 7349 ppm (22.3 mg/L) (vapour)	3350 mg/kg	2460 mg/kg

Other important toxicological hazards

: See Section 2 for additional information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Not expected to be harmful to aquatic organisms. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Hydrotreated light naphthenic distillate	64742-53-6	> 100 mg/L (Fathead minnow)	N/Av	None.
2-Methylpropan-1-ol	78-83-1	1430 mg/L (Fathead minnow)	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrotreated light naphthenic distillate	64742-53-6	> 10 000 mg/L (Daphnia magna)	10 mg/L (NOEL)	None.
2-Methylpropan-1-ol	78-83-1	1100 mg/L Daphnia pulex (Water flea)	20 mg/L (Daphnia magna)	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrotreated light naphthenic distillate	64742-53-6	N/Av	> 100 mg/L/72hr (NOEL)	None.
2-Methylpropan-1-ol	78-83-1	1799 mg/L/72hr (Green algae)	53 mg/L/72hr	None.

Persistence and degradability

: Not expected to be rapidly biodegradable.

Bioaccumulation potential : No data is available on the product itself.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Hydrotreated light naphthenic distillate (CAS 64742-53-6)	3.9 - 6 (calculated)	N/Av
2-Methylpropan-1-ol (CAS 78-83-1)	1.0	3.2 (estimated)

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.





SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

Methods of Disposal : Dispose of in accordance with federal, provincial and local hazardous waste laws.

RCRA : Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	Not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

Special precautions for user : Keep away from heat, sparks and open flame - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: No information available.

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SECTION 15 - REGULATORY INFORMATION**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Hydrotreated light naphthenic distillate	64742-53-6	Yes	None.	None.	No	N/Ap
2-Methylpropan-1-ol	78-83-1	Yes	5000 lb/ 2270 kg	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Eye Damage, Aspiration hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Hydrotreated light naphthenic distillate	64742-53-6	No	N/Ap	No	Yes	No	No	No	No
2-Methylpropan-1-ol	78-83-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS Classification: See Section 2.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Hydrotreated light naphthenic distillate	64742-53-6	265-156-6	Present	Present	(9)-1692	KE-12552	Present	May be used as a single component chemical under an appropriate group standard.
2-Methylpropan-1-ol	78-83-1	201-148-0	Present	Present	(2)-3049	KE-24894	Present	HSR001097

SECTION 16. OTHER INFORMATION**Legend**

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EPA: Environmental Protection Agency

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EST: Eastern Standard Time
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TLV: Threshold Limit Values
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for
- 2. ECHA - European Chemical Agency
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).
- 4. Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists
- 6. California Proposition 65 List
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

Preparation Date (mm/dd/yyyy)

: 07/06/2020

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p>Prepared for: Lubriformance P.O. Box 1487 2001 Reserve Dr. Canton, TX 75103 Telephone: (833) TNT-FUEL www.lubriformance.com</p>	
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