



Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name: Total Lube
Product Synonym: Total_Lube
Product Numbers: 0612, 0665
Product Description: Lubricant, rust inhibitor, water dispersant, penetrant

Manufacturer: Berryman Products, Inc.
3800 E Randol Mill Rd
Arlington, TX 76011
(800) 433-1704 within USA
(817) 640-2376 outside USA
www.BerrymanProducts.com

Emergency Contact: Infotrac, Inc., (800) 535-5053

Section 2 – Hazards Identification

Emergency Overview: Combustible. Harmful or fatal if swallowed. Vapor harmful.

Routes of Exposure: Ingestion, eye contact, skin contact

Possible Health Hazards

Eyes: May cause mild to moderate irritation of the eyes.

Skin: May cause mild to moderate irritation of the skin. Prolonged or repeated contact may dry the skin and result in dermatitis.

Inhalation: Acute overexposure may result in headache, dizziness, nausea, and unconsciousness. Chronic overexposure or intentional abuse may adversely affect the liver, kidneys, and lungs. May also aggravate emphysema and bronchitis.

Ingestion: Accidental ingestion and subsequent aspiration of even small quantities may cause lung damage, aspiration pneumonitis, cyanosis, and death. Ingestion of larger amounts may also include dizziness, fatigue, unconsciousness, and gastrointestinal effects, such as abdominal discomfort, pain, nausea, and vomiting.

Supplemental Information: See “Section 11 – Toxicological Information” for additional information.

Section 3 – Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS Number</u>	<u>Weight</u>
Aliphatic Petroleum Distillates	64742-48-9	40-50%
Aliphatic Petroleum Distillates	64742-52-5	40-50%
Calcium Oxidate	Mixture	1-5%

Section 4 – First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, holding the eyelids apart at regular intervals to ensure complete irrigation. Dispose of contaminated contact lenses.

Skin Contact: Remove contaminated clothing, and wash affected areas of body thoroughly with soap and water. Allow clothing to air dry, and launder before reuse. Seek medical attention if irritation persists.

Inhalation: If breathing difficulties occur, remove source of exposure or move victim to fresh air and administer oxygen, if necessary. If symptoms persist, seek immediate medical attention. If breathing stops, give artificial respiration and seek immediate medical attention.

Ingestion: Do *not* induce vomiting unless otherwise directed by a medical professional. Dilute stomach contents by drinking 1-2 cups of milk or water. Seek medical attention immediately.

Section 5 – Firefighting Measures

Flash Point and Method: 105-120°F by Setaflash closed-cup tester

Flammability Limits (composite): Lower – 1% Upper – 6%

Suitable Extinguishing Media: All, including water fog, foam, dry chemical, and carbon dioxide

Unsuitable Extinguishing Media: Use water spray or fog with caution as product may float to surface and reignite.

Protective Equipment: Employ SBCA and full protective gear, including shield, as product is comprised of combustible solvents and may build pressure and vent, rupture, or explode violently at elevated temperatures.

Specific Procedures: Product may present explosion hazards at elevated temperatures. Move product from area if possible without risk of injury. Use water spray to cool containers.

Section 6 – Accidental Release Measures

General Remediation Overview: Combustible! Avoid all sources of ignition and ventilate area!

Personal Precautions: Avoid all sources of ignition and unnecessary contact with product.

Environmental Precautions: Prevent further loss of product if safely possible.

Methods for Containment: Use booms or other barriers as necessary to prevent further loss.

Methods for Cleaning Up: For small spills, mop up or absorb with inert material, such as corn cob, cellulose, or vermiculite. For large spills, pump or transfer material into containers for recovery and use absorbent material for collection of unrecoverable product. Ensure thorough ventilation of the local area to prevent the accumulation of combustible vapor.

Section 7 – Handling and Storage

Handling: Avoid contact with skin and eyes. Wash hands thoroughly after use.

Storage: Store in cool, dry location.

Section 8 – Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>Exposure Limit</u>	<u>Source</u>
Aliphatic Petroleum Distillates (as mineral oil mist)	5 mg/m ³	ACGIH
Aliphatic Petroleum Distillates (as Stoddard Solvent)	100 ppm	ACGIH
Calcium Oxidates	NE	N/A
Carbon Dioxide	5,000 ppm	OSHA

Engineering Controls: Use outside with adequate ventilation to minimize exposure.

Respiratory Protection: If necessary, use respiratory protection sufficient to reduce exposure to permissible limits.

Eye Protection: Use of safety or glasses with wrap-around lens or goggles is recommended.

Skin Protection: Employment of impermeable gloves is recommended.

Other Protection: For industrial settings, combination safety shower with eye wash station is recommended.

Section 9 – Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, yellow

Odor: Mild, characteristic

Freezing Point: <-40°F (approximate)

Boiling Range: 300-1,000°F (approximate)

Specific Gravity: 0.83-0.84 at 68°F

pH: N/A, as supplied

Solubility in Water: Negligible

Volatile Content: 60%

Evaporation Rate: Slower than water

Vapor Density: Heavier than air

Vapor Pressure: 80-100 PSI at 68°F

VOC Content: 60% by weight (500 g/L) (by EPA Method 24)

VOC Content: 50% by weight (420 g/L) (by EPA consumer products standards)

VOC Composite Partial Pressure, PP_c: 0.6 mm Hg at 68°F (as calculated by SCAQMD Rule 1171(B)(57))

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Incompatible Materials: Acids, strong oxidizers

Hazardous Decomposition Products: None under normal conditions of use. Thermal decomposition may yield carbon monoxide, carbon dioxide, and organic oxygenates.

Possibility of Hazardous Reactions: Negligible

Section 11 – Toxicological Information

General Information: This formulated product has not been evaluated for toxicological properties. Acute toxicity is anticipated to be low to moderate, depending on exposure route. Chronic toxicity is expected to be low to moderate.

Acute Toxicity: No specific data available on blend

Chronic Toxicity: No specific data available on blend

Carcinogenicity: N/A

Teratogenicity: N/A

Mutagenicity: N/A

Supplemental Information: See “Section 2 – Hazards Identification” of this MSDS for additional information.

Section 12 – Ecological Information

Ecotoxicity: This product may be ecologically significant to aquatic environments even in small amounts.

Persistence and Degradability: All ingredients are ultimately biodegradable, but some of the components, such as aliphatic petroleum distillates (oil-based), are expected to be moderately persistent.

Bioaccumulation Potential: Negligible

Section 13 – Disposal Considerations

Disposal Instructions: None specific. Dispose of waste in accordance with applicable regulations.

Section 14 – Transportation Information

US Department of Transportation (DOT): In any size container shipped by ground, this product should bear the following shipping description:

UN1950, Aerosols, 2.1

International Air Transportation Association (IATA): In any size container shipped by air, this product should bear the following shipping description:

UN1950, Aerosols, 2.1

Section 15 – Regulatory Information

FEDERAL CONSIDERATIONS

SARA Title III, Section 302 – Extremely Hazardous Substances: Neither this product nor any of its components appear on the list of extremely hazardous substances (EHS) found in §40 CFR 355 Appendices A and B and are not subject to the emergency planning (EPCRA) requirements of §40 CFR 355.30 or the reportable quantity (RQ) and threshold planning quantity (TPQ) requirements of §40 CFR 355 Appendices A and B.

SARA Title III, Section 304 – Hazardous Substances: This product does *not* contain any components found in the list of hazardous substances of §40 CFR Table 302.4.

SARA Title III, Sections 311/312 – Hazard Classes: This product contains one or more ingredients that are classified into the following hazard categories outlined in §40 CFR 370.40: sudden release of pressure; fire; immediate (acute) health; delayed (chronic) health

SARA Title III, Section 313 – Toxic Chemicals: This product does *not* contain any chemicals listed in §40 CFR 372.65 exceeding the *de minimis* concentration reporting requirements of §40 CFR 372.38.

Section 15 – Regulatory Information (continued)

FEDERAL CONSIDERATIONS (continued)

Clean Air Act, Section 183(e) – Consumer and Commercial Products: This product complies with the National Volatile Organic Compound Emission Standards for Consumer Products regulations found in §70 FR 69759.

Toxic Substances Control Act (TSCA): All chemicals known to be present in this product are either listed on the TSCA inventory or are not required to be per §15 USC 2601, et seq.

Occupation Safety and Health Administration (OSHA): This material safety data sheet is provided for compliance with applicable regulations of the Hazard Communication Standard (HCS) found in §29 CFR 1910.1200(g). Federal law requires persons receiving this document to study it carefully and become aware of the hazards of this product. Notify all employees, visitors, agents, and contractors of the information on this sheet.

Consumer Product Safety Commission (CPSC): If sold in the United States, this product is regulated under the Federal Hazardous Substances Act, is subject to the labeling requirements of 16 CFR 1500, and must include the following cautionary statements: DANGER. Combustible. May be harmful or fatal if swallowed. Vapor Harmful. Eye and skin irritant. Keep out of the reach of children.

REGIONAL CONSIDERATIONS

Lake Michigan Air Directors Consortium (LADCO): Complies with category VOC requirement

Ozone Transport Commission (OTC): Complies with category VOC requirement

STATE CONSIDERATIONS

California: This product is compliant with the category VOC requirements of §94509 of Subchapter 8.5 Article 2 of the Air Resource Board's "Regulation for Reducing Emissions from Consumer Products" and is fully suitable for sale as a *consumer product*.

This product is *not* subject to the labeling requirements of "Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986" ("Prop 65").

New Jersey: For Right-To-Know ("RTK") labeling requirements, refer to "Section 3 – Composition / Information on Ingredients."

Section 16 – Other Information

Hazardous Materials Identification System (HMIS)

HMIS Hazard Rating	HMIS Hazard Index
Health 1	Least - 0
Flammability 2	Slight - 1
Reactivity 0	Moderate - 2
Protective Equipment X	High - 3
	Extreme - 4

Index of Abbreviations

ACGIH – American Council of Governmental and Industrial Hygienists

IARC – International Agency for Research on Cancer

N/A – not applicable

NE – Not established

NIOSH – National Institute for Occupational Safety and Health

NTP – National Toxicology Program

OSHA – Occupation Safety and Health Administration

PEL – Permissible Exposure Limit (as required by OSHA)

TLV – Threshold Limit Value (as recommended by ACGIH)

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Legal Disclaimer: The information contained in this document is, to the best of Berryman Products, Inc.'s knowledge, complete and accurate but is not warranted. All materials may present unknown hazards and should be used with caution. It is the responsibility of the user to evaluate the information in a prudent manner and to use it in a manner consistent with its intended purpose. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.