

SAFETY DATA SHEET

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires SDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

SECTION 1. IDENTIFICATION

Product Identifier: LiquiTube Farm & Ranch
Product Use: Permanent Flat Tire Protection
Manufactured for: LiquiTube Industries, LLC
721 East Herrin St
Herrin, IL 62948

Product Identification # (PIF): 01367
Emergency Telephone #: 1-800-255-3924
General Information #: 618-985-4445
Date Prepared: July 12, 2023
Date Revised: May 7, 2024
Revision: 2

SECTION 2. HAZARD(S) IDENTIFICATION



Signal Word: WARNING

Hazard Class	Category	Code	Hazard Statement
Acute Toxicity, Oral	4	H302	Harmful if swallowed
STOT, Repeated Exposure	2	H373	May cause damage to organs through prolonged or repeated exposure

Precautionary	Code	Statement
Prevention	P260 P264 P270	Do not breathe mists/vapors/sprays. Wash thoroughly after handling. Do not eat, drink or smoke or smoke when using this product.
Response	P314 P301+P310 P321 P330	Get medical advice/attention if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Specific treatments: See Section 4 First Aid Measures. Rinse mouth.
Storage	P405	Store locked up.
Disposal	P501	Dispose of contents/container in compliance with all Federal, State/Provincial and local laws and regulations.

Description of any hazards not otherwise classified:

May cause eye and skin irritation. Inhaling airborne mists/sprays of product may cause respiratory irritation. Overexposure may cause central nervous system depression. May be harmful or fatal if swallowed – based on product use, exposure is unlikely. Contains material that caused birth defects in rats and mice – Avoid exposure during pregnancy.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration Range %
Ethylene glycol	107-21-1	35 – 45

SECTION 4. FIRST AID MEASURES

Eyes: Flush well with water for at least 15 minutes, holding eyelids open. Remove any contact lenses. Seek medical attention.

Skin: Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation develops and persists, seek medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration by way of pocket mask equipped with one-way valve or other proper respiratory device – Do NOT use mouth-to-mouth method if victim inhaled material. Call a physician.

Ingestion: Get medical attention immediately. Wash out mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by medical personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

SECTION 5. FIRE-FIGHTING MEASURES

Flammability: Class IIIB Combustible Liquid

Flash Point: >232°F (>111°C)

Extinguishing Media: Foam, dry chemical, carbon dioxide fire extinguishers, water spray. Do not spray water directly on fire. Use water spray to cool containers.

Specific hazards arising from chemical: In a fire, or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

Firefighting protective equipment: Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Sensitivity to static discharge: This product is a Class IIIB combustible.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (Section 8). Eliminate all ignition sources. Ventilate area. Do not breathe mists/vapors/sprays. Wash thoroughly after handling.

For Small Spills: Spilled material may be slippery. Avoid dispersal of material and runoff into soil, waterways, drains and sewers. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Wash walking surfaces with water to reduce slipping hazard. Dispose of contaminated absorbent material in accordance with local, state and federal regulations.

For Large Spills: Large spills cannot occur due to packaging.

SECTION 7. HANDLING AND STORAGE

Handling: Wear personal protection equipment (Section 8). Use with adequate ventilation. Do not breathe mists/vapors/sprays. Avoid use during pregnancy. Do not handle around sources of ignition. Never use welding or cutting torch on or near drum (even empty) because product can ignite explosively. Do not premix with other chemicals. Do not eat, drink or smoke in work areas. Wash thoroughly after handling.

Storage: Keep away from heat, flame, or sunlight. Keep container closed when not in use. Store locked up. Protect from physical damage. Store away from strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS #	OSHA/PEL	ACGIH/TLV	STEL
Ethylene glycol	107-21-1	50ppm	100mg/m ³	Not established

Engineering Controls: Provide adequate ventilation. Observe occupational exposure limits and keep the risk of exposure to a minimum.

Personal protective equipment:

Eye: Safety glasses with side shields or splash proof goggles.

Skin: Chemical resistant (impervious) gloves. Normal materials handling clothing.

Respirator: Use NIOSH approved protection if PEL is exceeded, or if mists/vapors/sprays are generated.

Other: Use in a well ventilated area. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow, opaque liquid	Upper/Lower flammability limits	Not determined
Odor	None	Vapor pressure	<0.1mmHg @ 20°C
Odor threshold	Not determined	Vapor density (Air = 1)	>1
pH	8.5	Specific gravity (water = 1.0)	1.020 g/ml
Melting point	Not determined	Solubility	Dispersible in water
Freezing point	-9°F to -11°F	Partition coefficient (n-octanol/water)	Not determined
Boiling point	Not determined	Auto-ignition temperature	Not determined
Flash point	>232°F (>111°C)	Decomposition temperature	Not determined
Evaporation rate (n-butyl acetate=1)	<1	Viscosity, #5 @ 20rpm Brookfield	4500 – 6000cps
Flammability	Class IIIB Combustible	%Volatile/Volume	95

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under normal, ambient temperature and conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Heat, flame and sparks. Do not mix with other chemicals

Incompatible materials: Avoid strong oxidizing agents.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity (short and long term):

Oral (LD50 Rat): >2000mg/kg

Dermal (LD50 Rabbit): >3500mg/kg

Inhalation (LC50 Rat): >2.5mg/L

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: Inhaling airborne mists/sprays of product may cause respiratory irritation. Overexposure may cause central nervous system depression.

Ingestion: May be harmful or fatal if swallowed – based on product use, exposure is unlikely.

CAUTION: Contains material that caused birth defects in rats and mice – Avoid exposure during pregnancy.

NTP/IARC/OSHA Carcinogen: No

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Effects:

96h LC-50 (fish): >100ppm

96h EC-50 (invertebrates): >100ppm

48h LC-50 (algae): >100ppm

Persistence and degradability: Expected to be readily biodegradable.

Bioaccumulation: Low potential.

Mobility: This product is dispersible in water and may spread in water systems. This product is partially volatile and may spread in the atmosphere. Soil mobility not determined.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Do not dump into sewers, on the ground or into any waterways. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied. Do not cut, drill, grind or weld on or near the container.

RCRA: Not applicable.

SECTION 14. TRANSPORT INFORMATION

UN/ID No.: Not a dangerous good

Proper Shipping Name: NA

Hazard Class: NA

Packing Group: NA

Special Provisions (49 CFR 172.102): NA

Exemptions (49 CFR 173.***): NA

Non-bulk packaging (49 CFR 173.***): NA

Bulk packaging (49 CFR 173.***): NA

Quantity Limitations:

Passenger aircraft/ rail (49 CFR 173.27): NA

Cargo aircraft only (49 CFR 175.75): NA

Vessel Stowage:

Location: NA

Other: NA

Marine Pollutant (IMDG Code): This product does not contain any ingredients listed in Annex B to 49 CFR 172.101 that exceed 1% in concentration.

Transportation in Bulk (IMDG-Annex II of MARPOL 73/78 and IBC Code): This product is not offered for bulk transport overseas.

SECTION 15. REGULATORY INFORMATION

TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

SARA Section 302: The components of this product are either not regulated or regulated, but present in negligible concentrations.

SARA TITLE III Section 311/312:

Immediate (Acute) Health	Yes	Fire Hazard	No
Delayed (Chronic) Health	Yes	Reactive Hazard	No

SARA Title 313: This material contains the following chemical components with known CAS numbers subject to reporting requirements (40 CFR 372): Ethylene Glycol CAS#107-21-1: % by wt = 47%.

CERCLA: Ethylene Glycol (CAS#107-21-1) has a reportable quantity of 5,000 lbs. at 100% concentration, however, this product is not considered a Hazardous Substance since the quantity does not equal or exceed the RQ in one package (49 CFR 171.8, definition of "Hazardous Substance").

United States Right-To-Know: Ethylene Glycol CAS# 107-21-1 – Massachusetts, New Jersey and Pennsylvania.

Proposition 65: WARNING: This material contains the following ingredients for which the state of California has found to cause birth defects or other reproductive harm: Ethylene glycol CAS# 107-21-1.

RCRA: Not applicable.

SECTION 16. OTHER INFORMATION

Date Prepared: July 12, 2023

Hazard Ratings (HMIS): Health 2, Flammability 1, Reactivity 0. Personal Protection Rating to be supplied by user based on use conditions.

Product VOC: LVP-VOC exempt – Vapor pressure <0.1mmHg @ 20°C (40 CFR 59.203(f))

Carefully read all instructions on label before handling this product.

Keep out of reach of children.

"FOR INDUSTRIAL USE ONLY"

Abbreviation	Full Name/Explanation
ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CNS	Central Nervous System
CFR	Code of Federal Regulations
DOT	Department of Transportation
EC	Effective Concentration
HMIS	Hazardous Material Information System
LC	Lethal Concentration
LD	Lethal Dose
NA	Not Applicable
ND	Not Determined
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act

VOC	Volatile Organic Compounds
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The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.

SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED, REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS, CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.