LAWSON Products

Material Safety Data Sheet

Revision Date *04-Feb-2011*

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 19901
Product name Tef-Coat Lube
Recommended Use Lubricant

Supplier Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
(847)-827-9666

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Extremely flammable. Vapors may cause flash fire or explosion. Contents under pressure. Harmful by inhalation. Aspiration hazard. May enter lungs and cause damage. May cause eye/skin irritation. Harmful or fatal if swallowed.

Aggravated Medical Conditions
Pre-existing skin conditions may be aggravated by exposure to this product.

Principal Routes of Exposure
Eyes. Skin contact. Skin absorption. Inhalation. Ingestion.

Potential health effects

Eyes May cause the following effects:. Moderately irritating to the eyes. Severe irritation. Severity depends on degree of exposure.

Skin May cause the following effects: . Skin Irritation. Repeated or prolonged exposure may cause:. Defatting. Dermatitis. Chronic exposure causes drying effect on the skin .

Inhalation Harmful by inhalation. Repeated or prolonged exposure may cause the following effects. Headaches. Dizziness. Nausea. Decreased blood pressure. Changes in heart rate. Cyanosis. May cause irritation of the nose and throat. May cause irritation to the lungs. Central nervous system depression. Confusion. Loss of coordination. Light headedness. Weakness. Possible cardiac arrhythmias. Drowsiness . Kidney damage. Lung damage. Liver damage. Possible unconsciousness. Death. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Ingestion No hazard under normal industrial and institutional use. Harmful or fatal if swallowed. Aspiration hazard. May cause severe lung damage if aspirated into the lungs from ingestion or vomiting. Central nervous system damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Propane/Isobutane/N-Butane	68476-86-8	50-60
Hexane	64742-49-0	20-30
2-Propanone	67-64-1	10-20
Ethylbenzene	100-41-4	0.1-1
Xylenes (o-, m-, p- isomers)	1330-20-7	1-10
Toluene	108-88-3	0.0
Benzene	71-43-2	0.0

4. FIRST AID MEASURES

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention.

Skin contact Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Seek medical attention if irritation persists.

Ingestion Do not induce vomiting. Call a physician immediately.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash point °C -96
Flash point °F -141
Method Seta closed cup

Autoignition temperature °C Not Applicable
Autoignition temperature °F Not Applicable

Flammability Limits (% in Air)
Upper 12.8
Lower 1.0

Suitable extinguishing media
Water fog. Dry chemical. Carbon dioxide (CO2). Alcohol foam. Foam.

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire and Explosion Hazards
Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches. Flash back possible over considerable distance. Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat .

Sensitivity to shock
No information available.

Sensitivity to static discharge
Yes. Take precautionary measures against static discharges.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up
Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect leaking liquid in sealable containers. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs.

7. HANDLING AND STORAGE

Handling
Thoroughly wash hands and exposed skin after handling. Keep in a well-ventilated place. Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Avoid using sparking tools. Containers can contain residues. Keep container closed when not in use. Do not puncture or incinerate. Keep out of reach of children.

Storage
Keep away from open flames, hot surfaces and sources of ignition. Do not freeze. Store in temperatures below 120 degrees F. Keep away from direct sunlight.

NFPA Storage Code
Store as Level 3 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Propane/Isobutane/N-Butane	-	-	-	N/D
Hexane	-	-	-	-
2-Propanone	1000 ppm 2400 mg/m^3	-	500 ppm	750 ppm
Xylenes (o-, m-, p-isomers)	100 ppm 435 mg/m^3	-	100 ppm	150 ppm
Ethylbenzene	100 ppm 435 mg/m^3	-	100 ppm	125 ppm
Toluene	200 ppm	300 ppm	20 ppm	-
Benzene	1 ppm 10 ppm applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028	25 ppm applies to industry segments exempt from the 1 ppm TWA and 5 ppm STEL of the benzene standard	0.5 ppm	2.5 ppm

Ventilation and Environmental Controls
Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area. Use with adequate explosion-proof ventilation to meet the limits in Section 8 .

Hygiene measures
Avoid contact with skin, eyes and clothing. Wash hands before eating or using the washroom. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection
Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator. Seek professional advise prior to respirator selection and use.

Hand Protection
Impervious gloves.

Eye protection
Use safety eyewear designed to protect against splash of liquids.

Skin and body protection
Wear appropriate clothing to minimize skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Cloudy White
Odor	Solvent
Odor Threshold	Not Applicable
pH	Not Applicable
Specific Gravity	0.6551
Vapor pressure	No data available
Vapor density	>Air
Evaporation Rate	>1 (Butyl Acetate = 1)
Water solubility	Negligible
VOC Content	76.02%; 3.59 lbs/gal; 430 g/L
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	-41 - 175
Boiling point/range °F	-24 - 284
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	-96
Flash point °F	-141

10. STABILITY AND REACTIVITY

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Stability
Stable under normal conditions.

Conditions to avoid
Contact with ignition sources, hot-glowing surfaces, electrical arcs, sparks, and open flame. Do not store in temperatures above 120 degrees F. Avoid direct sunlight.

Incompatability
Oxygen. Strong oxidizing agents. Chlorates. Nitrates. Peroxides. Strong oxidizers.

Hazardous Decomposition Products
Acrid fumes. Carbon oxides. Halogens.

Polymerization
None under normal processing.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Propane/Isobutane/N-Butane 68476-86-8	-	-	-
Hexane 64742-49-0	5000 mg/kg	3160 mg/kg	73680 ppm
2-Propanone 67-64-1	5800 mg/kg	-	-
Xylenes (o-, m-, p- isomers) 1330-20-7	4300 mg/kg	1700 mg/kg	47635 mg/L 5000 ppm
Ethylbenzene 100-41-4	3500 mg/kg	15354 mg/kg	17.2 mg/L
Toluene 108-88-3	636 mg/kg	12124 mg/kg 8390 mg/kg	12.5 mg/L 26700 ppm
Benzene 71-43-2	1800 mg/kg	-	13050 - 14380 ppm

Synergistic Products None known

Specific Hazards Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Potential health effects

Sensitization None known .

Chronic toxicity See Section 2 .

Mutagenic effects None known .

Teratogenic effects None known .

Reproductive toxicity None known .

Target Organ Effects See Section 2.

Other adverse effects This product contains trace amounts of benzene which presents a carcinogenic risk to humans based upon the evaluation of the IARC WORKING GROUP .

Carcinogenic effects See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Hexane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2-Propanone	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Xylenes (o-, m-, p-isomers)	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene	Listed	Group 2B	Not Listed	Not Listed	Listed
Toluene	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Benzene	Listed	Group 1	Listed	Not Listed	Listed

12. ECOLOGICAL INFORMATION

2-Propanone

Microtox Data
Photobacterium phosphoreum EC50=14500 mg/L (15 min)

Water Flea Data
water flea hEC50 48 (0.0039 mg/L)
water flea hEC50 48 (12700 mg/L)
Daphnia magna hEC50 48 (12600 mg/L)
water flea hEC50 48 (0.0039 mg/L)

Xylenes (o-, m-, p- isomers)

Microtox Data
Photobacterium phosphoreum EC50=0.0084 mg/L (24 h)

Water Flea Data
water flea hEC50 48 (3.82 mg/L)
Gammarus lacustris hLC50 48 (0.6 mg/L)
water flea hEC50 48 (3.82 mg/L)

Ethylbenzene

Microtox Data
Photobacterium phosphoreum EC50=9.68 mg/L (30 min)
Nitrosomonas EC50=96 mg/L (24 h)

Water Flea Data
Daphnia magna hEC50 48 (1.8 - 2.4 mg/L)

Toluene

Microtox Data
Photobacterium phosphoreum EC50=19.7 mg/L (30 min)

Water Flea Data
water flea hEC50 48 (11.3 mg/L)
water flea hEC50 48 (310 mg/L)
Daphnia magna hEC50 48 (11.3 mg/L)
water flea hEC50 48 (11.3 mg/L)

Aquatic toxicity Do not let product enter drains Harmful to aquatic organisms

13. DISPOSAL CONSIDERATIONS

Disposal Information
Dispose in accordance with federal, state, and local regulations. Do not puncture or incinerate.

14. TRANSPORTATION INFORMATION

DOT
Consumer commodity, ORM-D

TDG
Consumer commodity, ORM-D

15. REGULATORY INFORMATION

US EPA SARA 313

Chemical Name	US EPA SARA 313 Emission Reporting
Xylenes (o-, m-, p- isomers)	Listed
Ethylbenzene	Listed
Toluene	Listed
Benzene	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed
Hexane	Not Listed	Not Listed	Not Listed
2-Propanone	Not Listed	Listed	Not Listed
Xylenes (o-, m-, p- isomers)	Listed	Listed	Not Listed
Ethylbenzene	Not Listed	Listed	Carcinogen
Toluene	Listed	Listed	Developmental
Benzene	Listed	Listed	Carcinogen Developmental Male Reproductive

Chemical Name	Type
Benzene - 71-43-2	Male Reproductive

WARNING: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Propane/Isobutane/N-Butane	X	X	-	X
Hexane	X	X	-	X
2-Propanone	X	X	-	X
Xylenes (o-, m-, p- isomers)	X	X	-	X
Ethylbenzene	X	X	-	X
Toluene	X	X	-	X
Benzene	X	X	-	X

CPR
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations.

16. OTHER INFORMATION

HMIS

Health - 2
Flammability - 4
Physical Hazard - 0

Prepared By V. Shargorodsky, Regulatory Affairs Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.