

Material Safety Data Sheet

Revision Date 08-Sep-2014

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code P90385
Product name Clean Lube II
Recommended Use Lubricant

Supplier Lawson Products, Inc.
 8770 W.Bryn Mawr Ave.- Suite 900
 Chicago, IL 60631
 1-866-529-7664
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Extremely flammable. Contents under pressure. Vapors may cause flash fire or explosion. Irritant.

Aggravated Medical Conditions
 None Known.

Principal Routes of Exposure
 Eyes. Skin. Inhalation.

Potential health effects

Eyes Exposure to vapors will cause the following effects. Contact with eyes may cause irritation. Severity depends on degree of exposure.

Skin Exposure can dry the skin. Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation May cause the following effects. Respiratory irritation. Headaches. Nausea. Fatigue. Drowsiness . Loss of coordination.

Ingestion Not likely to occur.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Heptanes	142-82-5	40-70
Propane	74-98-6	10-30
Butane	106-97-8	10-30
Cyclohexane	110-82-7	1-5

4. FIRST AID MEASURES

Eye contact Flush with plenty of water for at least 15 minutes. Seek medical attention.

Skin contact Wipe off with a towel. Wash area thoroughly with soap and water. Seek medical attention if irritation persists.

Ingestion Seek medical attention immediately.

Inhalation Remove to fresh air. Provide oxygen if breathing is difficult. Administer artificial respiration if not breathing. Seek medical attention immediately.

Notes to physician Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

5. FIRE FIGHTING MEASURES

Flash point °C -104
Flash point °F -156
Method Tag Closed Cup

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

Flammability Limits (% in Air)
Upper 9.5
Lower 1.2

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

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
 Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat . Water spray may be ineffective. If water is used, fog nozzles are preferable. Flash back possible over considerable distance. Containers may vent or burst under extreme or prolonged fire conditions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Sensitivity to shock
 No information available.

Sensitivity to static discharge
 No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
 Avoid breathing of vapors.

Methods for cleaning up

Ventilate area to maintain exposure below permissible exposure limits. Evacuate area of unprotected and unnecessary personnel. Eliminate all sources of ignition. Soak up excess with absorbent material. Place in non-leaking, tightly sealed container for proper disposal.

7. HANDLING AND STORAGE**Handling**

Avoid breathing vapors. Avoid breathing spray mist. Do not puncture or incinerate. Direct spray away from face. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not stick pin, nail, or any other sharp object into opening on top of can. Thoroughly wash hands and exposed skin after handling. Remove and wash contaminated clothing before re-use. Use only according to label directions.

Storage

Keep away from heat and sources of ignition. Avoid sparks. Keep in a dry, cool and well-ventilated place. Store in temperatures below 120 degrees F (50 degrees C) . Follow all label directions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Heptanes	500 ppm 2000 mg/m ³	-	400 ppm	500 ppm
Cyclohexane	300 ppm 1050 mg/m ³	-	100 ppm	-
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Butane	800 ppm	-	-	1000 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. Open windows and doors to allow fresh air entry during application and drying. Exhaust fans should be explosion proof or set up in a way that explosive concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.

Hygiene measures

When using, do not eat, drink or smoke.

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Wear a self-contained breathing apparatus (SCBA). Wear a NIOSH approved organic vapor/particulate respirator. Use air supplied respirator in confined spaces.

Hand Protection

The following gloves are recommended for prolonged or repeated contact: . Solvent resistant gloves.

Eye protection

ANSI approved safety glasses or splash goggles are recommended. Face shield is recommended.

Skin and body protection

Solvent-resistant apron and boots. Impervious clothing.

Other Protective Equipment

A safety shower and eye wash station should be available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless
Odor	Solvent
Odor Threshold	Not Applicable
pH	Not Applicable
Specific Gravity	0.63
Vapor pressure	Not Applicable
Vapor density	>Air
Evaporation Rate	< 1 (ether = 1)
Water solubility	Negligible
VOC Content	99%
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	-42-97
Boiling point/range °F	-44-208
Melting point/range °C	Not Applicable
Melting point/range °F	Not Applicable
Flash point °C	-104
Flash point °F	-156

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Application to hot surfaces. Exposure to open flame. Do not store in temperatures above 120 degrees F.

Incompatibility

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide. Toxic fumes.

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Heptanes 142-82-5	-	3000 mg/kg	103 g/m ³
Cyclohexane 110-82-7	5000 mg/kg	2000 mg/kg	13.9 mg/L
Propane 74-98-6	-	-	658 mg/L
Butane 106-97-8	-	-	658 g/m ³

Synergistic Products None known**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** None Known.**Carcinogenic effects** See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Heptanes	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Cyclohexane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION**Cyclohexane****Microtox Data***Photobacterium phosphoreum* EC50=85.5 mg/L (5 min)*Photobacterium phosphoreum* EC50=93 mg/L (10 min)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Emptied container retains product residue. Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

14. TRANSPORTATION INFORMATION**DOT**

May be classed as Consumer Commodity, ORM-D, UN1950, AEROSOLS, 2.1 (6), LIMITED QUANTITY

TDG

UN1950 AEROSOLS, flammable, 2.1

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Cyclohexane	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Heptanes	Listed	Listed	Not Listed
Cyclohexane	Listed	Listed	Not Listed
Propane	Not Listed	Listed	Not Listed
Butane	Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Heptanes	X	X	-	X
Cyclohexane	X	X	-	X
Propane	X	X	-	X
Butane	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

Health - 1
 Flammability - 4
 Reactivity - 0

Prepared By

Maureen Ruggeberg, Regulatory Affairs Specialist

Product code **P90385**

Product name **Clean Lube II**

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.