



Material Safety Data Sheet

Revision Date 26-Jan-2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code P90385
Product name Clean Lube II
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

Flammable. Harmful if swallowed. Irritant.

Color Colorless

Odor Solvent

Form Aerosol

Aggravated Medical Conditions None Known.

Principal Routes of Exposure Eyes. Skin. Inhalation.

Potential health effects

Eyes Moderately irritating to the eyes. Prolonged or repeated exposure may cause . Severe irritation.

Skin Prolonged skin contact may defat the skin and produce dermatitis. Moderate irritation.

Inhalation Respiratory irritation. Headaches. Nausea. Fatigue. Drowsiness . Loss of coordination.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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.

5. FIRE FIGHTING MEASURES

Flash point °C	-104
Flash point °F	-156
Method	Tag closed cup

Autoignition temperature °C	Autoignition temperature °C
Autoignition temperature °F	

Flammability Limits (% in Air)	
Upper	9.5
Lower	1.2

Specific Information for Aerosol Products

Flame extension	>18"
Flashback	Yes

Suitable extinguishing media

Foam. Carbon dioxide (CO₂). Dry chemical. Water fog.

Extinguishing media which must NOT be used for safety reasons

No information available.

Special Fire-Fighting Procedures

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing.

Fire and Explosion Hazards

Containers may vent or burst under extreme or prolonged fire conditions Flash back possible over considerable distance.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Evacuate area of unprotected and unnecessary personnel. Ventilate area to maintain exposure below permissible exposure limits. Dike or dam large spills. Soak up excess with absorbent material. Place in non-leaking, tightly sealed container for proper disposal. .

7. HANDLING AND STORAGE

Handling

Ensure adequate ventilation. Avoid breathing vapors. Do not puncture or incinerate. Direct spray away from face. Do not stick pin, nail, or any other sharp object into opening on top of can. Use only according to label directions.

Storage

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

NFPA Storage Code

Store as Level 3 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Heptanes	2000 mg/m ³ 500 ppm	-	400 ppm	500 ppm
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm listed under aliphatic hydrocarbon gases alkane C1-C4	-
Butane	800 ppm	-	1000 ppm listed under aliphatic hydrocarbon gases alkane C1-C4	-
Cyclohexane	1050 mg/m ³ 300 ppm	-	100 ppm	-

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, or both, to keep below the TLV's in the worker's breathing zone and the general area. General: as necessary.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended.

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.

Skin and body protection

No information available

Other Protective Equipment

An apron should be worn to prevent skin contact 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	No information available
pH	No data available	Specific Gravity	0.63
Vapor pressure	No data available	Vapor density	>Air
Evaporation Rate	<1 (ether = 1)	VOC Content	99
Water solubility	Negligible	Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °F	-44-208	Boiling point/range °C	-42-97
Melting point/range °F	No data available	Melting point/range °C	No data available
Flash point °F	-156	Flash point °C	-104

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

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

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide. Toxic fumes.

Polymerization

Will not occur.

Synergistic Products

No information available.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Heptanes</i> 142-82-5	-	-	103 g/m ³
<i>Propane</i> 74-98-6	-	-	-

<i>Butane</i> 106-97-8	-	-	658 g/m ³ 680 g/m ³
<i>Cyclohexane</i> 110-82-7	12705 mg/kg	-	-

Potential health effects**Sensitization**

No information available.

Chronic toxicity

No information available.

Mutagenic effects

No information available.

Teratogenic effects

No information available

Reproductive toxicity

No information available

Target Organ Effects

No information available

Carcinogenic effects

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Heptanes	-	-	-	-	-
Propane	-	-	-	-	-
Butane	-	-	-	-	-
Cyclohexane	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Cyclohexane

Microtox Data*Photobacterium phosphoreum* EC50=85.5 mg/L (5 min)*Photobacterium phosphoreum* EC50=93 mg/L (10 min)**Water Flea Data***water flea* EC50=400.0 mg/L (48 h)**Ecotoxicity effects**

No information available

13. DISPOSAL CONSIDERATIONS**Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

Disposal Information

Do not puncture or incinerate.

14. TRANSPORT INFORMATION

DOT

Consumer commodity (Cyclohexane),ORM-D,,RQ

TDG

AEROSOLS(Heptanes,Propane), Class 2.1,UN1950,PG

IMDG/IMO

Aerosols(Heptanes,Propane),UN1950,PG

IATAAerosols, flammable(Heptanes,Propane),UN1950
Hazard Class 2.1**MEX**

UN1950 Aerosols(Heptanes,Propane),2.2,

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
Propane	Not Listed	Listed	Not Listed
Butane	Listed	Listed	Not Listed
Cyclohexane	Listed	Listed	Not Listed

International Inventories

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

CPRC

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

NFPA		HMIS	
Health	-	Health	1
Flammability	-	Flammability	4
Reactivity	-	Physical Hazard	0
		Protection	-

Reason for revision No information available.

Prepared By T. Heidorn, MSDS Project Lead

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.