LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

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MATERIAL SAFETY DATA SHEET

16020

LUBRI-CLEAN NON-FLAMMABLE CLEANER & DEGREASER

LUBRI-LOY CATALOG #: 16020, 16640, 167040 **DATE ISSUED:** 11/07/2011 **REPLACES ISSUE:** NEW

I PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Product Name	Lubri-Clean Non-Flammable Cleaner & Degreaser
Lubri-Loy Catalog#	16020, 16640, 167040
Date Issued	11/07/2011
Replaces Issue	NEW
24-Hr. Emergency Phone	CHEMTREC (800) 424-9300

II COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT	CAS NO. OF COMPONENTS	WT/WT% LESS THAN
1. Trichloroethylene	79-01-6	100.0%
2. Carbon Dioxide	124-38-9	5.0%

EXPOSURE LIMITS

	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
1.	10 ppm	25 ppm	100 ppm	200 ppm	N.E.	NO
2.	5000 ppm	30,000 ppm	5,000 ppm	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

III HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW ***:** Keep from reach of children. Do not puncture, incinerate, or place aerosol product containers in compactors. Containers of this material may be hazardous when emptied since containers retain product residues (vapor, liquid, and/or solid). All hazardprecautions given must be observed. Do not flame cut, braze or use welding torch. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Effects of Overexposure - Eye Contact	Can cause severe irritation, redness, tearing, blurred vision.
Effects of Overexposure - Skin Contact	Prolonged or repeated contact can cause moderate irritation defatting, dermatitis.
Effects of Overexposure - Inhalation	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.Possible cardiac arrhythmias at high concentrations.
Effects of Overexposure - Ingestion	No Information.

Effects of Overexposure - Chronic Hazards	Trichloroethylene is listed as a potential carcinogen (2A) by IARC based on data from animal studies. Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: kidney damage, liver damage,
Primary Route(s) of Entry	SKIN CONTACT INHALATION EYE CONTACT

IV FIRST AID MEASURES

First Aid - Eye Contact	Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.
First Aid - Skin Contact	Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. Get medical attention if irritation persists.
First Aid - Inhalation	Remove individual to fresh air. If breathing is difficult, administer oxygen. Give artificial respiration if breathing has stopped. Keep person warm and quiet. Get medical attention.
First Aid - Ingestion	Do not induce vomiting. Give two glasses of water if conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

V FIRE FIGHTING MEASURES

Flash Point	N.A.
Lower Explosive Limit	8.0 %
Upper Explosive Limit	10.5 %
Autoignition Temperature	N.D.
Extinguishing Media	CO2 DRY CHEMICAL FOAM WATER FOG
Unusual Fire and Explosion Hazards	Vapors are heavier than air and travel along the ground or may be moved by ventilation to locations distant from the material handling point. For aerosol products, exposure to temperatures over 130 degrees F may cause containers to burst. Vapors can ignite or decompose from extremely high intensity ignition source liberating toxic gases.
Special Firefighting Procedures	Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires. Keep fire exposed containers cool with water fog.

VI ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled	Eliminate sources of ignition and ventilate area. Persons not properly equipped should be excluded from area. Stop spill at source if possible. Avoid inhalation of vapors. Avoid contact with liquid. Clean walking surfaces thoroughly to reduce slipping hazard.

VII HANDLING AND STORAGE

Handling	Containers of this material may be hazardous when emptied, since containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given must be observed. Do not flame cut, braze or use welding torch on containers. Intentional misuse by deliberately concentrating and inhaling the vapors from this product may be harmful or fatal.
Storage	Do not store above 120F. Do not store in direct sunlight.

VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Provide sufficient mechanical ventilation (general and/or local exhaust) ventilation to maintain exposure below TLV(s).
Respiratory Protection	If work place exposure limits of product or any component is exceeded, use a NIOSH/MSHA approved respirator. Consult your safety equipment supplier for recommendations.

Skin Protection	Wear impervious gloves if method of use involves skin contact with product. Consult your safety supply vendor for glove recommendations.
Eye Protection	Wear safety glasses at minimum, more extensive protection may be necessary depending on how the product is to be used.
Other Protective Equipment	Wear impervious clothing if bodily exposure is anticipated. Consult your safety supply vendor for recommendations.
Hygienic Practices	Wash hands before eating or smoking. Smoke in designated areas only. Remove and launder clothing if contaminated.

IX PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	-109 - 188 F	**VAPOR DENSITY**	Is heavier than air
ODOR	PUNGENT	**ODOR THRESHOLD**	N.D.
APPEARANCE	CLEAR LIQUID	**EVAPORATION RATE**	Is faster than Butyl Acetate
SOLUBILITY IN H2O	NEGLIGIBLE		
FREEZE POINT	N.D.	**SPECIFIC GRAVITY**	1.4458
VAPOR PRESSURE	N.D.	**pH @ 0.0 %**	N.D.
PHYSICAL STATE	LIQUID	**VISCOSITY**	N.D.
COEFFICIENT OF WATER/OIL DISTRIBUTION		N.D.	

(See Section 16 for abbreviation legend)

X STABILITY AND REACTIVITY

Conditions to Avoid	Heat, sparks, welding arcs, pilot lights and open flame.
Incompatibility	oxidizing agents, aluminum, alkali, alkaline earth metals,
Hazardous Decomposition Products	carbon monoxide and carbon dioxide, hydrogen chloride, phosgene,
Hazardous Polymerization	Will not occur under normal conditions.
Stability	This product is stable under normal storage conditions.

XI TOXICOLOGICAL INFORMATION

No product or component toxicological information is available.

XII ECOLOGICAL INFORMATION

No Information.

XIII DISPOSAL CONSIDERATION

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

XIV TRANSPORT INFORMATION

DOT Proper Shipping Name	Aerosols
DOT Technical Name	
DOT Hazard Class	2.2 · **HAZARD SUBCLASS:** 6.1
DOT UN/NA Number	UN1950 · **PACKING GROUP:** NONE · **RESP. GUIDE PAGE:** 126
Additional Information:	For domestic ground and air shipment this product may be shipped as a Consumer Commodity ORM-D. Outer cartons must have the ORM-D or ORM-D AIR designation. (our original cartons are preprinted with the ORM-D designation for ground shipment)

XV REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD PRESSURIZED GAS HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

---------- CHEMICAL NAME ----------	CAS NUMBER	WT/WT % IS LESS THAN
TRICHLOROETHYLENE	79-01-6	100.0 %

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

---------- CHEMICAL NAME ----------	CAS NUMBER
No information is available.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

Canadian WHMIS	This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.
Canadian WHMIS Class	No information available.

: TSCA Inventory: All components of this product are on the US TSCA inventory. On June 30, 1993 the OSHA Z-1-A table was revoked and OSHA reverted back to their prior exposure limits. The values on this MSDS reflect the roll back to the prior values. Some states may continue to enforce the 1993 limits.

XVI OTHER INFORMATION

HMIS RATINGS	HEALTH	FLAMMABILITY	REACTIVITY
	3	1	0

VOC Content	97.0 % BY WEIGHT, 1399 GRAMS/LITER TOTAL PRODUCT, 1457 GRAMS/LITER LESS WATER AND EXEMPT, 0.99 LBS/CAN
Legend	N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS is been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. The environmental information and hazardous materials identification system have been included by LUBRI-LOY in order to provide additional health and hazard classification information. The ratings recommend are based upon the criteria supplied by the developers of these rating systems, together with LUBRI-LOY's interpretation of the available data. Proper personal protective equipment varies widely with conditions of use and anticipated exposure. We recommend that a supervisor or other qualified person determine proper PPE for intended use.