LUBRI-LOY®
PREMIUM LUBRICANTS & GREASES

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MATERIAL SAFETY DATA SHEET

LC-35100

LUBRI-LOY LC-35100 LUBRI-CUT CONCENTRATED WATER SOLUBLE CUTTING FLUID

5% CONCENTRATION · METAL WORKING FLUID

LUBRI-LOY CATALOG #: 35100 **DATE ISSUED:** 11/28/06 **REPLACES ISSUE:** New Issue

I PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Product Name	Lubri-Loy LC-35100 Lubri-Cut Concentrated Water Soluble Cutting Fluid 5% Concentration
Chemical Name	Metal Working Fluid
CAS #	64742-52-5
Lubri-Loy Catalog#	35100
Date Issued	11/28/06
Replaces Issue	New Issue
24-Hr. Emergency Phone	CHEMTREC (800) 424-9300

II COMPONENTS AND HAZARD INFORMATION

PRODUCT	CAS NO. OF COMPONENTS
SEVERLY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	64742-52-5

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Hazardous Materials Identification System (HMIS):

HEALTH	FLAMMABILITY	INSTABILITY
0/1	1/1	0

EXPOSURE LIMITS:

Exposure limits have not been established for this product. Available exposure limits for the sunstance(s) are shown below.

Oil Mist:	ACGIH: TLV - 5 MG/M3.
Substance(s)	OSHA: PEL - 5 MG/M3.

ENGINEERING MEASURES:

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation in confined spaces.

III HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

CAUTION

May cause irritation with prolonged contact.

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing.

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE	Eye, Skin
HUMAN HEALTH HAZARDS - ACUTE :	
EYE CONTACT	May cause irritation with prolonged contact.
SKIN CONTACT	May cause irritation with prolonged contact.
INGESTION	Not a likely route of exposure. There may be irritation to the gastro-intestinal tract with nausea and vomiting.
INHALATION	Not a likely route of exposure. Elevated temperatures or mechanical action may form vapors, mists or fumes which may be irritating to the eyes, nose, throat and lungs.

HUMAN HEALTH HAZARDS - CHRONIC :

No adverse effects expected other than those mentioned above.

IV FIRST AID MEASURES

EYE CONTACT	Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
SKIN CONTACT	Flush affected area with water. If symptoms develop, seek medical advice.
INGESTION	Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink.
INHALATION	Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.
NOTE TO PHYSICIAN	Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

V FIRE FIGHTING MEASURES

FLASH POINT	Not applicable
EXTINGUISHING MEDIA	This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.
FIRE AND EXPLOSION HAZARD	May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING	In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

VI ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible.
METHODS FOR CLEANING UP	SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).
ENVIRONMENTAL PRECAUTIONS	Do not contaminate surface water.

VII HANDLING AND STORAGE

HANDLING	Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled.
STORAGE CONDITIONS	Store in suitable labeled containers. Store the containers tightly closed.
SUITABLE CONSTRUCTION MATERIAL	Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS :

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

ACGIH/TLV : Substance(s)	Oil Mist (Mineral) TWA: 5 mg/m3
OSHA/PEL : Substance(s)	Oil Mist (Mineral) TWA: 5 mg/m3
ENGINEERING MEASURES	The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.
RESPIRATORY PROTECTION	Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: Multi-contaminant cartridge. with a Particulate pre-filter. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
HAND PROTECTION	When handling this product, the use of chemical gloves is recommended., The choice of work glove depends on work conditions and what chemicals are handled, but we have positive experience under light handling conditions using gloves made from, PVC, Gloves should be replaced immediately if signs of degradation are observed., Breakthrough time not determined as preparation, consult PPE manufacturers.
SKIN PROTECTION	Wear standard protective clothing. See general advice.
EYE PROTECTION	When handling this product, the use of safety glasses with side shields is recommended.
HYGIENE RECOMMENDATIONS	Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.
HUMAN EXPOSURE CHARACTERIZATION	Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

IX PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Yellow
ODOR	Soapy
SPECIFIC GRAVITY	1.03 @ 77.0 °F / 25.0 °C
DENSITY	8.6 lb/gal
SOLUBILITY IN WATER	Emulsifiable
pH (5.0 %)	9.2

Note: These physical properties are typical values for this product and are subject to change.

X STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions.
HAZARDOUS POLYMERIZATION	Hazardous polymerization will not occur.
CONDITIONS TO AVOID	Avoid extremes of temperature.
MATERIALS TO AVOID	Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
HAZARDOUS DECOMPOSITION PRODUCTS	Under fire conditions: Oxides of carbon, Oxides of nitrogen

XI TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION	This product is not expected to be a sensitizer.
CARCINOGENICITY	None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).
HUMAN HAZARD CHARACTERIZATION	Based on our hazard characterization, the potential human hazard is: Low

XII ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS	No toxicity studies have been conducted on this product.

MOBILITY :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM , provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

AIR	WATER	SOIL/SEDIMENT
<5%	30 - 50%	30 - 50%

The portion in water is expected to be soluble or dispersible.

BIOACCUMULATION POTENTIAL

Component substances have a low potential to bioconcentrate.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low If released into the environment, see CERCLA/SUPERFUND in Section 15.

XIII DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D. As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

XVI TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT :

Proper Shipping Name	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name	PRODUCT IS NOT REGULATED DURING TRANSPORTATION

XV REGULATORY INFORMATION

NATIONAL REGULATIONS, USA :

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.
Severely Hydrotreated Heavy Naphthenic Distillate : Exposure Limit - Compound Class, Irritant

CERCLA/SUPERFUND, 40 CFR 117, 302 :

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

X	Immediate (Acute) Health Hazard
	Delayed (Chronic) Health Hazard
	Fire Hazard
	Sudden Release of Pressure Hazard
	Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :

This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA) :

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / FORMERLY SEC. 307, 40 CFR 116.4 / FORMERLY SEC. 311 :

This product may contain trace levels (<0.1% for carcinogens, <1% all other substances) of the following substance(s) listed under the regulation:

SUBSTANCE(S)	CITATIONS
• Maleic Anhydride	Sec. 311

CLEAN AIR ACT, SEC. 112 (40 CFR 61, HAZARDOUS AIR POLLUTANTS), SEC. 602 (40 CFR 82, CLASS I AND II OZONE DEPLETING SUBSTANCES) :

This product may contain trace levels (<0.1% for carcinogens, <1% all other substances) of the following substance(s) listed under the regulation:

SUBSTANCE(S)	CITATIONS
• Maleic Anhydride	Sec. 111, Sec. 112

CALIFORNIA PROPOSITION 65 :

This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :

None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS :

None of the substances are specifically listed in the regulation.

NATIONAL REGULATIONS, CANADA :

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :

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

WHMIS CLASSIFICATION :

Not considered a WHMIS controlled product.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with he New Substances Notification Regulations.

INTERNATIONAL CHEMICAL CONTROL LAWS

EUROPE

The substance(s) in this preparation are included in or exempted from the EINECS or ELINCS inventories

XVI OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

* The human risk is: Low
* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

- Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.
- Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.
- IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.
- Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CDROM Version), Micromedex, Inc., Englewood, CO.
- Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

- Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.
- Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.
- Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.
- The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

The Information And Recommendations Herein Are, To The Best Of Our Knowledge And Belief. Accurate And Reliable As Of The Date Issued. Apr Does Not Warrant Or Guarantee Their Accuracy Or Reliability. And Shall Not Be Liable For Any Loss Or Damage Arising Out Of The Use Thereof.

The Information And Recommendations Are Offered For The User's Consideration And Examination. And It Is The User's Responsibility To Satisfy Itself That They Are Suitable And Complete For Its Particular Use. If Buyer Repackages This Product, Legal Counsel Should Be Consulted To Insure Proper Health, Safety And Other Necessary Information Is Included On The Container.