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MATERIAL SAFETY DATA SHEET

EMERGENCY OVERVIEW
This clear blue liquid is a fluid with a mild odor. Keep product away from ignition sources in an emergency response. Containers should be grounded during product transfer.

NFPA RATING: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: 2-cycle motor oil for lawn mowers, etc. **ISSUE DATE:** February 24, 2009

THIS LUBRICANTS USA PRODUCT IS: **AIR COOLED 2-CYCLE OIL**

CAS NUMBER: Mixture
SYNONYMS / GENERAL NAMES: 2-cycle engine oil
24 HOUR EMERGENCY TELEPHONE: (CHEMTREC) 1-800-424-9300
TECHNICAL INFORMATION: 1-800-442-5823

2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
Base oil	64742-54-7	80-90	
Solvent	8052-41-3	8-13	
Proprietary additives	Proprietary	5-11	
Blue dye	1330-20-7	<0.5	

HAZARDOUS INGREDIENTS: NONE

HAZARDOUS PER 29 CFR 1916.1200: NO

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	Skin contact
TARGET ORGANS:	Skin
IRRITANCY:	This product can cause mild, transient, eye irritation with short-term contact with liquids or sprays.
REPRODUCTIVE EFFECTS:	N/A
CANCER INFORMATION:	This product does not contain any components at concentrations above 0.1% that are considered carcinogenic by OSHA, IARC, or NTP.

4. FIRST AID MEASURES

EYES:	Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness or pain persists.
DERMAL:	Remove contaminated shoes and clothing, wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods.

INGESTION:	Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately.
INHALATION:	Move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If breathing is difficult, a qualified individual should administer 100 percent humidified oxygen. Seek medical attention immediately. Keep the affected individual warm and at rest.
INJECTION:	Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT, °C(°F):	96°C (205°F)
FLAMMABLE LIMITS (% BY VOLUME):	LOWER: na UPPER: NA
EXTINGUISHING MEDIA:	Use dry chemical, foam, carbon dioxide or water fog.
SPECIAL FIRE FIGHTING PROCEDURES:	N/A
AUTOIGNITION TEMPERATURE:	Relatively low.
EXPLOSION DATA:	N/A
NFPA RATING:	HEALTH: <u> 1 </u> FLAMMABILITY: <u> 1 </u> REACTIVITY <u> 0 </u>

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Comply with all laws and regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

Ecotoxicity Ecological effects testing has not been conducted on this material. Discharges are expected to cause only localized and non-persistent environmental damage.

Environmental fate An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based fluids will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area.

7. HANDLING AND STORAGE

HANDLING & STORAGE PROCEDURES: This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity and open flames.

Keep container closed. Do not store with strong oxidizing agents. Do not store at temperatures above 120°F or in direct sunlight for extended periods of time.

Empty containers may contain product residues that can ignite with explosive force.
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources; the drum could explode and cause injury or death.

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

For work on tanks refer to Occupational Safety and Health Administration (OSHA) regulations, ANSI Z49.1, and other governmental and industrial references

pertaining to cleaning, repairing, welding, or other contemplated operations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with the National Fire Protection Association (NFPA) publications. Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with the NFPA standard for petroleum products. In order to prevent fire or explosion hazards, use appropriate equipment.
GLOVES PROTECTION:	Use gloves constructed of chemical resistant materials if needed, to avoid prolonged or repeated skin contact.
EYE PROTECTION:	Use splash goggles or face shield when eye contact may occur.
RESPIRATORY PROTECTION:	Use supplied-air respiratory protection in confined or enclosed spaces, if needed.
CLOTHING RECOMMENDATION:	If splashing or spraying is expected chemical-resistant (Tyvek®, nitrile or neoprene) clothing should be worn. This might include long-sleeves, apron, slicker suit, boots and additional facial protection. If general contact occurs, promptly remove soaked clothing and take a shower.
OTHER COMMENTS:	Use good personal hygiene practices. Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.
Occupational exposure guidelines	Exposure limit for total product is 300 ppm (2170 mg/M ³) for an 8-hour workday. (Exposure basis guideline is from the solvent supplier).

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Blue liquid
ODOR:	Mild petroleum odor
pH:	Neutral
VAPOR PRESSURE, mm Hg (20°C):	<1
VAPOR DENSITY:	>5
MELTING POINT:	N/A
BOILING RANGE, 760 mm Hg, °C:	600+ F
SOLUBILITY IN WATER:	Insoluble in cold water.
SPECIFIC GRAVITY:	0.88 (Water = 1)
EVAPORATION RATE:	<1 .
VISCOSITY 40°C (100°C)	61 cSt @ 40 C (9.4 cSt @ 100 C)
MOLECULAR WEIGHT:	
PERCENT VOLATILE:	

10. STABILITY AND REACTIVITY

STABILITY:	Stable
INCOMPATIBILITY:	Strong oxidizers would present a serious explosion hazard
POLYMERIZATION:	Not expected to occur
THERMAL DECOMPOSITION:	CO ₂ , CO, smoke, fumes, unburned hydrocarbons.

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION:	This product can cause mild, transient, eye irritation with short-term contact with liquid or sprays.
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DERMAL IRRITATION:	Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judge to be neither a corrosive nor an irritant by OSHA criteria.
INHALATION TOXICITY:	Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.
INGESTION IRRITATION:	Product has a low order of acute oral toxicity. At repeated very high oral doses, this product caused reversible damage to the stomach, liver and kidney (male only) of rats. These effects are not relevant to humans at occupational levels of exposure.
CHRONIC EXPOSURE SYMPTOMS	This material is toxic to lungs, digestive system, skin, eyes
OTHER REMARKS	Classified 3 (animal inadequate evidence) for mildly refined additive (<1%) and classified 1 (proven for human) by IARC for severely refined additive (<1%).

12. HEALTH INFORMATION

HMIS CODE: **HEALTH:** 1 **FIRE:** 1 **REACTIVITY:** 0

No	HIGHLY TOXIC	No	SENSITIZER
No	TOXIC	No	REPRODUCTIVE EFFECTS
No	CORROSIVE	No	MUTAGEN
No	IRRITANT		

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Determine compliance status with all applicable requirements prior to disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	Petroleum distillate.
HAZARD CLASS:	
HAZARD IDENTIFICATION NUMBER:	
DOT PLACARD:	N/A
COMPATIBILITY CATEGORY:	N/A

15. REGULATORY INFORMATION

SARA SECTION 301-304—THRESHOLD PLANNING QUANTITY (TPQ):

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

SARA SECTION 313 - TOXIC CHEMICALS:

This product does not contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

NO	IMMEDIATE (ACUTE) HEALTH HAZARD	NO	SUDDEN RELEASE OF PRESSURE HAZARD
NO	DELAYED (CHRONIC) HEALTH HAZARD	NO	REACTIVE HAZARD
NO	FIRE HAZARD		

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a)

of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY

All components of this material are listed on the U.S. TSCA Inventory.

CALIFORNIA PROPOSITION 65

This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

NEW JERSEY RIGHT-TO-KNOW LABEL

Petroleum distillate.

ADDITIONAL REGULATORY REMARKS

16. OTHER INFORMATION

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information was prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Lubricants USA believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4

AP = approximately EQ = equal > = greater than < = less than NA = not applicable
 ND = no data NE = not established

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| ACGIH = American Conference of Governmental Industrial Hygienists
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act (1980)
EPA = Environmental Protection Agency
IARC = International Agency for Research on Cancer
NIOSH = National Institute of Occupational Safety and Health
NPCA = National Paint and Coating Manufacturers Association
OSHA = Occupational Safety and Health Administration
SARA = Superfund Amendments and Reauthorization Act (1986) | AIHA = American Industrial Hygiene Association
HMIS = Hazardous Materials Information System
NFPA = National Fire Protection Association
NLGI = National Lubricating Grease Institute
NTP = National Toxicology Program
RQ = Reportable quantity
TSCA = Toxic Substance Control Act |
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