



MATERIAL SAFETY DATA SHEET (MSDS)

USA HMIS INDEX

Health - 1
Fire - 1
Reactivity - 0
Personal - A
Protection

NFPA



CANADA WHMIS INDEX

Health - 1
Fire - 1
Reactivity - 0
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Protection

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: *CYCLE HD™*
Product Description: High Performance, Heavy Duty Soluble Oil
CAS-No.: Mixture

Company Information: LENOX
301 Chestnut Street
East Longmeadow, MA 01028 United States

Emergency: Medical Emergency Telephone (Poison Center): 1-303-623-5716
Technical Contact: Lenox Technical Support 1-800-642-0010

Creation Date: 09-03-2008
Revision Date: 07-24-2009

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS (Typical Values)

Components	CAS#	Percent
Alkanolamines	Mixture	1 - 10
Petroleum Distillates, Hydrotreated Heavy Naphthenic	64742-52-5	30 - 70
Synthetic Sulfonate	Proprietary	1 - 10
Nonionic Surfactant	68131-39-5	1 - 5
Balance: water, corrosion inhibitors, biocides & defoamers		

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: No known hazards resulting from the material as supplied. No known health injuries are expected under normal use.

Potential Acute Exposure Effects

Eyes: Contact with eyes may cause irritation.
Skin: Not expected to be a primary skin irritant. Prolonged exposure may cause skin irritation.
Inhalation: Health injuries are not known or expected under normal use. Inhalation of vapors and mist may cause irritation of respiratory tract.
Ingestion: May be harmful if swallowed. Do not ingest. Small amounts swallowed during normal operations are not likely to cause injury. Larger amounts may cause injury.
Target Organs: Not established.
Chronic Effects: None known.

SECTION 4: FIRST AID MEASURES

Eyes:	Immediately flush with plenty of running water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
Skin:	Flush affected areas promptly with water for 15 minutes. Remove contaminated clothing. In case of continued irritation, consult physician.
Inhalation:	For over-exposure, remove to fresh air. If symptoms persist, seek medical attention.
Ingestion:	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Obtain medical attention.
Notes to Physician:	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point:	>200.0 °F estimated
Auto Ignition:	Not determined
General Fire Hazards:	Not a fire hazard. Not to be used on Magnesium.
Unusual Fire & Explosion Hazards:	May burn, but does not ignite readily. Unvented containers exposed to fire may be combustible.
Hazardous Combustion Products:	Irritating and toxic gases may be released during a fire.
Extinguishing Media:	Small fires: Dry Chemical, CO ₂ , water spray or regular foam. Large fires: Water spray, fog or regular foam.
Fire Fighting Measures:	Wear full protective gear including a self contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: NOTE: Review Sections 5 and 8 before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Eliminate all sources of ignition. Isolate area and dike the spilled material. Prevent liquid from entering sewers, waterways, or low areas. Soak up with inert or other absorbent material and place in the appropriate containers. Dispose of in accordance with all state and federal regulations. Keep unnecessary personnel away.

SECTION 7: HANDLING AND STORAGE

Flood lubricant for industrial use only. Not designed for use as a spray lubricant. Avoid eye and skin contact, and store in a well-ventilated area. Keep container tightly closed. Do not store or consume food, drink, or tobacco in areas that may become contaminated with this material. Use product in a well ventilated area. Store at temperatures between 50 °F and 100 °F. Protect from Freezing. If Frozen, Thaw to Room Temperature and Agitate.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	None needed under normal working conditions. If a mist is generated and ventilation is insufficient, wear an approved respirator suitable for oil mists.
Ventilation:	Provide adequate ventilation.
Hand Protection:	Wear appropriate chemical resistant gloves.
Eye Protection:	Wear safety glasses with side shields.
Exposure Limits:	Exposure limits for this product have not been established.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FORM	Liquid
BOILING POINT	>200 °F
MELTING POINT	Not Applicable
VAPOR PRESSURE (mm Hg) at 20 °C	Not Established
VAPOR DENSITY (AIR=1)	Not Established
EVAPORATION RATE: (Butyl acetate = 1)	Not Applicable
VOLATILE FRACTION BY WEIGHT	Not Applicable
SOLUBILITY IN WATER (By Weight %)	Forms Emulsion
SPECIFIC GRAVITY (H ₂ O=1)	0.90 – 1.00
PH @ 5%	8.8 – 9.5
PH Concentrate	NA
APPEARANCE	Amber
ODOR	Petroleum

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Incompatibility:	Normally unreactive but avoid strong oxidizing agents and strong acids
Hazardous decomposition products	Carbon Oxides, Sulphur Oxides
Hazardous Polymerization:	Will not occur.
Materials to Avoid:	Nitrites, strong oxidizing agents, and strong acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Properties:	Not established
Acute Toxicity:	Not established
Epidemiology:	Not established
Carcinogenicity:	Based on component analysis, no potential carcinogens are present.
Mutagenicity:	Not established
Neurotoxicity:	Not established
Other toxological information:	No other information is available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Not expected to be harmful to aquatic life.
Bioaccumulation:	Not established
Aquatic toxicity:	Ecological injuries are not known or expected under normal use.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Treat all unused product destined for disposal as waste oil. Handle and dispose of per applicable State, Federal and Local regulations. It is the responsibility of the end-user / generator to determine the appropriate disposal method of used material.

