SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product Identifier:	Enviro Hydro-Lube 46B
Other means of identification:	Fire Resistant Hydraulic Fluid
Recommended use:	Hydraulic Systems
Supplier's Name:	Magna Chemical Canada Inc.
Address:	1450 Government Road West, Kirkland Lake ON P2N 2E9
Phone:	705 642 3352 or 416 479 9151
Emergency only:	Canutec 24hr Tel: 613 996 6666
Revision date:	15 January 2019

SECTION II – HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! MAY CAUSE EYE AND SKIN IRRITATION
Label elements: This material is considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
WHIMIS (CANADA): Class D-28: Material causing toxic effects (Toxic)
GHS -US Labelling
Signal Word: WARNING Potential Health Effects:

Potential Health Effects:
Acute Effects:
EYE: Moderately irritating to eyes.
SKIN: Slightly irritating to the skin.
INHALATION: Heating can generate vapours that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room is unlikely due to the low volatility of this product.
INGESTION: Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
CHRONIC EFFECTS: Unknown
TARGET ORGANS: None known
SAFETY HAZARD: Not classified as flammable but will burn.
ENVIRONMENTAL HAZARD: Not classified as environmental hazard under GHS criteria.
DISPOSAL: Take expert advice of local regulatory agency for disposing of this product.

SECTION III – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name:	Weight %:	CAS#
Diethylene Glycol	45 – 55	111-46-6
Water	30 – 40	7732-18-5
Polyalkylene Glycol	10 – 15	52624-57-4
Decanoic Acid	1 – 2	334-48-5
N-Isopropyl Ethanolamine	1 – 2	109-56-8

SECTION IV – FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if irritation develops.

Skin Contact

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse.

Eye Contact

Immediately flush with plenty of water. Check for and remove any contact lenses. Seek medical attention if irritation develops.

Ingestion

Wash out mouth with water. Remove person to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting. Seek medical attention.

SECTION V – FIRE FIGHTING MEASURES

Suitable Fire-extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Specific hazards arising from the chemical

Cool closed containers exposed to fire with water spray.

Combustion Products

Oxides of carbon, dense smoke and possibly toxic fumes.

Protective Equipment for fire fighters

Firemen should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protection recommended in Section 8. Minimize skin contact.

Environmental Precautions

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for contaminated and cleaning up

Ventilate the area with fresh air. In in confined space or limited air circulation area, clean up workers should wear appropriate respiratory protection. Stop leak if without a risk. Move containers from spill area. Shovel into suitable properly marked container for disposal or reclamation in accordance with local regulations.

SECTION VII – HANDLING AND STORAGE

Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where the material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid contact with skin, eyes and clothing. Keep container away from heat, sparks, and open flame. Keep container closed when not in use.

Storage procedures

Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Store separate from acids and oxidizing materials. Store away from sparks and open flame.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Engineering Measures
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal Protective Equipment
Respiratory Protective
In case of insufficient ventilation, use suitable respiratory equipment.
Eye Protection
Wear safety goggles.
Skin and Body Protection
Wear safety shoes and protective gloves.
Protective Measures
Wash contaminated clothing before re-use.
Hygienic Work Practices
Remove and wash contaminated clothing and gloves. Ensure the eywash stations and safety showers are close to the workstation location.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State	Liquid
Color	Blue
Odour	No data available
Odour Threshold	No data available
Specific Gravity at 15.6^{0}C	1.08
pH	9.2
Viscosity at 40^{0}C, cSt	46
Flash Point (COC), ^{0}C	None
Fire Point ^{0}C	No data available
Pour Point ^{0}C	-63
Auto-Ignition Temperature	No data available
Vapour Pressure at Ambient Temperature	No data available
Boiling Point ^{0}C	106 ^{0}C
Evaporation Rate	No data available
Water Solubility	Soluble
Partition coefficient: n-octanol/water	No data available

SECTION X – STABILITY & REACTIVITY

Reactivity
No reactivity in expected under normal conditions of intended use.
Chemical Stability
Stable under normal conditions.
Possibility of Hazardous Reaction
Hazardous polymerization does not occur.
Conditions to Avoid
Extreme temperature and direct sunlight / heat / flame.
Incompatible Materials
Strong oxidizing agent.
Hazardous Decomposition Products
Hazardous decomposition is not expected to form under normal conditions of storage.

SECTION XI – TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity Harmful if swallowed.
Diethylene glycol
Acute Inhalation Toxicity
LC50, Rat, 4 Hour, dust/mist, >4.6 mg/l
The LC50 value is greater than the Maximum Attainable Concentration.
No deaths occurred at this concentration.
Polyalkylene Glycol
The LC50 has not been determined.
Decanoic Acid
Acute Inhalation Toxicity:
No adverse effects are anticipated from inhalation.
No specific, relevant data available foe assessment.
N-Isopropylethanolamine
Acute Inhalation Toxicity:
Vapor may cause irritation of the upper respiratory tract (nose and throat). LC50, Rat, 4 Hour, Vapor, > 0.856mg/l No death occurred at this concentration.
Isopropyldiethanolamine
Acute Inhalation Toxicity
LC50, Rat, 4 Hour, Vapour, >0.856 mg/l No deaths occurred at this concentration.
Ethylene Glycol
Acute Inhalation Toxicity
At room temperature exposure to vapor is minimal due to low volatility. With good ventilation, single exposure is not cause adverse effects. If material is heated or areas are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.

SECTION XII – ECOLOGICAL INFORMATION

Toxicity
Acute Toxicity to Fish
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive Species tested).
LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 4,500 mg/l, OECD Test Guideline 203 or Equivalent
Acute Toxicity to Aquatic Invertebrates
EC50, Daphnia magna (Water flea), static test, 48 Hour, 4,800 mg/l, OECD Test Guideline 202 or Equivalent
Acute Toxicity to Algae/Aquatic Plants
IC50, Pseudokirchneriella subcapitata (green algae), static test, 96 Hour, Growth inhibition (cell density reduction), 467 mg/l, OECD Test Guideline 201 or Equivalent
Toxicity to Bacteria
IC50, Bacteria, static test, 16 Hour, 22,000 mg/l
Toxicity to Soil-Dwelling Organisms
LC50, Eisenia fetida (earthworms), 14 d, survival, 26,574 mg/kg
Persistence and Degradability
Biodegradability
Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. 10-day Window: Pass
Biodegradation: 71 - 80 %
Exposure Time: 28 d
Method: OECD Test Guideline 301B or Equivalent
Bioaccumulative Potential
Bioaccumulation: No bioconcentration is expected because of the relatively high water solubility.
Mobility in soil: No data available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal

DO NOT DUMP INTO ANY SEWERS, on ground, or into any body of water. All disposal practices must be in compliance with all federal, state/provincial and local laws and regulations. Regulations mat vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility soley of the waste generator. As your supplier, we have no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in SDS section III: Composition Information. For unused uncontaminated product, the preferred options include sending to a licensed, permitted: incinerator or other thermal destruction device.

SECTION XIV – TRANSPORT INFORMATION

Special Shipping Information

TDG	DOT	IATA-DGR	IMDG-CODE
Not regulated as dangerous good	Not regulated as dangerous good	Not regulated as dangerous good	Not regulated as dangerous good

SECTION XV – REGULATORY INFORMATION

WHMIS CLASSIFICATION: Class D-2B: Material causing other toxic effects (Toxic).
TSCA: All chemical substance in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory.
DSL: On the inventory, or in compliance with the inventory.
IECSC: On the inventory, or in compliance with the inventory.
JAPAN INVENTORY: Not determined.
AUSTRALIA INVENTORY: Not determined.

SECTION XVI – OTHER INFORMATION

This product is FM Approved, Any further blending or handling (re-packing and re-labeling) by the purchaser of this material requires an additional agreement with FM Approvals

	NAPA
HEALTH	2
FIRE	0
REACTIVITY	0
SPECIFIC	None

Ratings range from 0 (No Hazard) to 4 (Severe Hazard)

Replaces Edition of: March 10, 2016