

SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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PRODUCT

Product Name: ESSENTIALUBE
Product Description: Hydrotreated Base Oil and Aliphatic Solvent and Additives
Product Code: 0001-X
Intended Use: Gasoline/Diesel Fuel Improver and Flushing Fluid

COMPANY IDENTIFICATION

Manufacturer: Hydrotex Partners Ltd.
 4912 S. 48th West Avenue
 Tulsa, OK 74107 USA

Transportation Emergency Phone 800-424-9300 CHEMTREC
Hydrotex Transportation No. 918-583-6224
MSDS Requests 972-389-8500
Product Technical Information 800-527-9439
MSDS Internet Address <http://www.hydrotexlube.com>

SECTION 2	COMPOSITION / INFORMATION ON INGREDIENTS
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Reportable Hazardous Substance(s) or Complex Substance(s)

NAME	CAS#	% BY WEIGHT
2-Methyl-1-propanol	78-83-1	< 50.0
Cresol	1319-77-3	< 0.3

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 3	HAZARDS IDENTIFICATION
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HAZARDS DISCLOSURE: This product contains hazardous materials as defined by the OSHA Hazard Classification Standard 29 CFR 1910.1200.

SARA 311 Categories:

Immediate (Acute) Health Effects.....YES
 Delayed (Chronic) Health Effects.....YES
 Fire Hazard.....YES
 Sudden Release of Pressure Hazard.....NO
 Reactivity Hazard.....NO

EMERGENCY OVERVIEW: WARNING1 Combustible liquid. Keep away from sparks and open flames. Can cause severe lung damage and may be fatal if swallowed.

HMIS Rating – HEALTH: 1

Flammability: 3

Reactivity: 0

NFPA Rating – Health 1

Flammability: 3

Reactivity: 0

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation. Effects may include discomfort or pain and redness. Wash eyes immediately with large amount of water, lifting the upper and lower lids, until no evidence of chemical remains at least 15 minutes. If irritation persists after washing, get medical attention.

SKIN: May cause mild skin irritation. Prolonged or repeated skin contact may cause drying or defatting of the skin. Wash contaminated skin with plenty of soap and water or mild detergent and water.

INHALATION: Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea or loss of coordination. Continued inhalation may result in unconsciousness. The vapor or fumes from this material may cause respiratory irritation and damage auditory system. Breathing this material at elevated concentrations causes central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion or disorientation.

INGESTION: Do not take internally. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.

TARGET ORGANS:

Central nervous system, blood, kidneys, liver, skin, eyes, lungs.

CARCINOGENICITY INFORMATION: T

Carcinogenic effects: Not available.

Mutagenic effects: Not available.

Teratogenic effects: Not available

Developmental toxicity: Not available

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4

FIRST AID MEASURES

EYE CONTACT

Flush thoroughly with large amounts of water for at least 15 minutes. Remove contact lenses, if present, after first 5 minutes of rinsing. If irritation persists get medical assistance.

SKIN CONTACT

Wash contact areas with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. If irritation persists, call a physician.

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INHALATION

If overcome by vapors, move the exposed person to fresh air. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. Seek medical attention if breathing difficulties continue.

INGESTION

If swallowed, do NOT induce vomiting. If vomiting occurs, have the person lean forward. Keep at rest. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Aldehydes, Smoke, Fume, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method] : >33 °C (93 °F) [EST. FOR OIL, ASTM D-92 (COC)]

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. Eliminate all sources of ignition in the vicinity of the spill or released vapor. See Section 3 for Hazard Identification. See Section 4 for First Aid measures. See Section 5 for Fire Fighting Information. See Section 8 for Personal Protective Equipment.

SPILL MANAGEMENT

Eliminate potential sources of ignition. Stop leak if it can be done without risk. Dike and contain spill. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined spaces. Remove with vacuum trucks or pump into storage/salvage vessels. Soak up residue with absorbent

such as clay, sand or other suitable material and dispose of properly.

Spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.

Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING

Avoid contact with eyes and skin. Use only with adequate ventilation. Use proper bonding and/or grounding procedures. Prevent small spills and leakage to avoid slip hazard. Keep away from ignition sources such as heat, spark, and flames. No smoking.

Static Accumulator: This material is a static accumulator.

STORAGE

DO NOT USE OR STORE near heat, sparks or flame. USE OR STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use. Do not store in open or unlabeled containers.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	CAS#	OSHA PEL	ACGIH TLV	ACGIH STEL	NIOSH REL	NIOSH STEL	NIOSH IDLH	NOTES
2-Methyl- 1-propanol	78-83-1	100 ppm	50 ppm	Not est.	100 ppm	Not est.	100 ppm	N/A
Cresol	1319-77-3	5 ppm	5 ppm	5 ppm	10 ppm	10 ppm	250 ppm	skin

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Local exhaust ventilation is recommended to control exposure.

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PERSONAL PROTECTION



Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid

Color: Green

Odor: Characteristic

Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.884

Flash Point [Method]: >33 °C (93 °F) [EST. FOR OIL, ASTM D-92 (COC)]

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

Boiling Point / Range: > 149 °C (300 °F)

Vapor Density (Air = 1): > 5 mm

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Vapor Pressure: 0.2 – 0.95 psi

pH: 7-8 slightly basic

Solubility in Water: Negligible

Oxidizing Properties: See Sections 3, 15, 16.



OTHER INFORMATION

Pour Point: -40 °C (-40 °F)

Melting Point: N/D

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Flames. Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, products of incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

This product contains the following chemicals classified as carcinogens as indicated: None

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bio-accumulate, however metabolism or physical properties may reduce the bio-concentration or limit bioavailability.

SECTION 13	DISPOSAL CONSIDERATIONS
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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

REGULATORY DISPOSAL INFORMATION

RCRA Information: Disposal of the unused product may be subjected to RCRA hazardous waste regulations (40 CFR, Part 261D). Disposal of the used product may also be regulated as hazardous waste due to resulting mixture characteristics, mixture components or product use. Such changes to the product may result in different and/or additional hazardous waste codes. Potential RCRA waste code based on the product as shipped: D001 IGNITABILITY. State or local laws may impose additional regulatory requirements regarding disposal. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14	TRANSPORT INFORMATION
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LAND (DOT)

Product Label.....ESSENTIALUBE
 D.O.T. Shipping Name.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)
 Hazard Class & Division.....3
 UN Number.....NA 1993
 Packing Group III
 Marine Pollutant.....No

LAND (TDG)

Proper Shipping Name.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)
 Hazard Class & Division.....3
 UN Number.....NA 1993
 Packing Group.....III
 Special Provisions.....None

SEA (IMDG)

Proper Shipping Name.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)
 Hazard Class & Division.....3
 EMS Number..... F-E, S-E
 UN Number.....NA 1993
 Packing Group.....III
 Marine Pollutant.....Yes
 Label(s)..... 3
 Transport Document Name.....UN1993, FLAMMABLE LIQUID, N.O.S. (2-METHYL-1-PROPANOL), 3, PG III, (33°C c.c.),

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AIR (IATA)

Proper Shipping Name.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)

Hazard Class & Division.....3

UN Number.....NA 1993

Packing Group.....III

Label(s) / Mark(s).....3

Transport Document Name.....UN1993 FLAMMABLE LIQUID, N.O.S., (2-METHYL-1-PROPANO)L, 3, PG III

NOTE: This material is NOT a marine pollutant.

SECTION 15 REGULATORY INFORMATION

REGULATORY DISCLOSURES:

MISCELLANEOUS INFORMATION: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, ENCS, KECI, PICCS, TSCA
Special Cases: None

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY:

Chemical Name	CAS Number	Typical Value
2-Methyl- 1-propanol	78-83-1	< 10.0%
Cresol	1319-77-3	< 0.03%

The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations
2-Methyl- 1-propanol	78-83-1	1, 4
Cresol	1319-77-3	1, 4

--REGULATORY LISTS SEARCHED--

- | | | | |
|---------------|------------------|-------------------|-------------|
| 1 = ACGIH ALL | 6 = TSCA 5a2 | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1 | 7 = TSCA 5e | 12 = CA RTK | 17 = NJ RTK |
| 3 = ACGIH A2 | 8 = TSCA 6 | 13 = IL RTK | 18 = PA RTK |
| 4 = OSHA Z | 9 = TSCA 12b | 14 = LA RTK | 19 = RI RTK |
| 5 = TSCA 4 | 10 = CA P65 CARC | 15 = MI 293 | |

Code key: CARC=Carcinogen; REPRO=Reproductive

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SECTION 16	OTHER INFORMATION
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N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No revision information is available.

The information and recommendations contained herein are, to the best of Hydrotex Partners Ltd.'s knowledge and belief, accurate and reliable as of the date issued. You can contact Hydrotex Partners Ltd. to insure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.