

LYONDELL LUBRICANTS -- AMPROL TYPE II TRANSFORMER OIL -- 9160-00-075-9816

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Product Identification
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Product ID:AMPROL TYPE II TRANSFORMER OIL

MSDS Date:03/24/1997

FSC:9160

NIIN:00-075-9816

Status Code:A

MSDS Number: CJFLN

=== Responsible Party ===

Company Name:LYONDELL LUBRICANTS

Address:12000 LAWNDALL AVE

Box:2451

City:HOUSTON

State:TX

ZIP:77252-2451

Country:US

Info Phone Num:800-313-76

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Emergency Phone Num:800-313-7646

Resp. Party Other MSDS Num.:MSDS NO. AP1121

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO080

=== Contractor Identification ===

Company Name:LYONDELL LUBRICANTS

Address:12000 LAWNDALL AVE

Box:2451

City:HOUSTON

State:TX

ZIP:77252-2451

Country:US

Phone:800-313-7645

CAGE:TO080

Company Name:LYONDELL PETROCHEMICAL CO

Address:1221 MCKINNEY AVE SUITE 1600

Box:3646

City:HOUSTON

State:TX

ZIP:77253-3646

Country:US

Phone:713-652-7200

CAGE:0JRK1

Company Name:TOPFLITE OIL CO INC

Address:1600 VANDERBILT RD
Box:City:BIRMINGHAM
State:AL
ZIP:35234-1414
Country:US
Phone:205-322-8487
Contract Num:ST0560-98-M-TB85
CAGE:07GZ3

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Composition/Information on Ingredients
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Ingred Name:SEVERELY HYDROTREATED LIGHT NAPHTHENIC DISTILLATE, (TYPE II
ELECTRICAL TRANSFORMER OIL), (MINERAL OIL)

CAS:64742-53-6

RTECS #:PY8036000

= Wt:99.5

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3 (OIL MIST)

ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name:ADDITIVE MIXTURE OXI
DATION INHIBITORS (PROPRIETARY)

= Wt:.5

Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:ORAL LD50 (RAT) IS >5000 MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: SKIN, MUCOUS MEMBRANES,
LUNGS, AND BLOOD. EYES: NO IRRITATION EXPECTED FROM SHORT-TERM
EXPOSURE. SKIN: MILD IRRITATION FROM SHORT-TERM EXPO

SURE.

INHALATION: MISTS OR VAPORS MAY IRRITATE THE MUCOUS MEMBRANES OF
THE NOSE, THROAT, BRONCHI, AND LUNGS. ASPIRATION INTO LUNGS MAY
CAUSE LIPOID PNEUMONIA. INGESTION: NOT LIKELY TO OCCUR. IT MAY
CAUSE A LAXATIVE EFFECT. CHRONIC: PROLONGED AND/OR REPEATED
CONTACT MAY PRODUCE MILD TO MODERATE SKIN IRRITATION, INFLAMMATION,
AND/OR SENSITIZATION.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SKIN: MILD IRRITATION FROM SHOT EXPOSURE.
PROLONGED AND/OR RE

PEATED CONTACT MAY PRODUCE MILD TO MODERATE SKIN IRRITATION, INFLAMMATION, AND/OR SENSITIZATION. INHALATION: IRRITATION OF NOSE, THROAT, BR ONCHI, LUNGS. INGESTION: LAXITIVE EFFECT.

Medical Cond Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING SKIN DISORDERS, CHRONIC RESPIRATORY DISEASES, OR BLOOD DISORDERS SHOULD AVOID CONTACT WITH THIS PRODUCT.

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===== First Aid Measures =====

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF PAIN OR REDNESS

PERSISTS, GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH LARGE AMOUNTS OF MILD SOAP AND WATER. INHALATION: NOT EX PECTED TO BE AN PROBLEM UNDER ANTICIPATED CONDITIONS OF USE. IN CASE OF OVEREXPOSURE, MOVE TO FRESH AIR. INGESTION: DO NOT INDUCE VOMITING. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====

Flash Point Method:PMCC

Flash Point:=-148.9C, 300.F

Autoignition Tem

p:=-351.7C, 665.F

Autoignition Temp Text:ESTIMA

Lower Limits:1.0 %

Upper Limits:7.0%

Extinguishing Media:SMALL FIRE: DRY CHEMICALS,CARBON DIOXIDE, FOAM, WATER FOG, INERT GAS(HALON OR NITROGEN).LARGE FIRES:WATER FOG,SPRAY,FOAM.

Fire Fighting Procedures:NEVER USE WATER JET,MAY SPREAD FIRE.

FOAM/WATER ARE EFFECTIVE,MAY CAUSE FOAMING.WEAR PROTECTIVE CLOTHING/EQUIPMENT.COOL CONTAINERS EXPOSED TO FIRE WITH WATER.

Unusual Fire/Explosion Hazard:CONTAINERS EXPOSED TO FIRE MAY BURST OR

LEAK FLAMMABLE VAPORS THAT CAN BURN IN OPEN OR BE EXPLOSIVE IN CONFINED SPACES.MISTS MAY BE FLAMMABLE BELOW FLASH POINT.

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===== Accidental Release Measures =====

Spill Release Procedures:CONTAIN SPILL AND PREVENT IT FROM ENTERING ALL WATER BODIES.MAXIMIZE RECOVERY FOR REUSE OR RECYCLING.TAKE UP EXCESS WITH SAND OR OTHER INERT NON-COMBUSTIBLE ABSORBENT AND PLACE IN APPROPRIATE CONTAINERS FOR LATER DISPOSAL.COMPLY WITH ALL REGULATIONS.

Neutralizing

Agent:NONE SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====

Handling and Storage Precautions:TO AVOID PRODUCT DEGRADATION, WATER CONTAMINATION SHOULD BE AVOIDED AND MINIMUM HANDLING TEMPERATURES SHOULD BE MAINTAINED. DO NOT STORE CONTAINERS AT TEMPERATURES ABOVE 120F.

Other Precautions:KEEP CONTAINER CLOSED AND IN A DRY, COOL, WELL-VENTILATED PLACE. STORE AWAY FROM EXTREME HEAT, RADIATION SOURCES, AND STRONG OXIDIZING AGENTS. D

O NOT PUNCTURE, INCINERATE, OR STORE CONTAINERS AT TEMPERATURES ABOVE 120F OR IN DIRECT SUNLIGHT.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE IS NEEDED UNDER ANTICIPATED USE CONDITIONS WITH ADEQUATE VENTILATION. IF EXPOSURE APPROACHES OR EXCEEDS THE OCCUPATIONAL EXPOSURE LIMITS, FOLLOW OSHA STANDARDS OF EQUIVALENT AND WEAR PROPER NIOSH/MSHA APPROVED VAPOR CONTROL RESPIRATORY EQUIPMENT.

Ventilation:PROVIDE EXHAUST VENTILATION/ENGINEERING CONTROLS TO KEEP AIRBORNE CONCENTRATIONS OF MISTS/VAPORS BELOW APPROVED LIMITS.

Protective Gloves:DISPOSABLE, VINYL, NITRILE, NEOPRENE GLOVES

Eye Protection:SAFETY GLASSES, OR GOGGLES, OR FACE SHIELD

Other Protective Equipment:AVOID SKIN CONTACT OR WEAR IMPERVIOUS PROTECTIVE CLOTHING. PROVIDE EYE WASH STATION AND SAFETY SHOWER NEAR WORK-STATION.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

POTENTIAL TREATMENT AND DISPOSAL METHODS FOR WASTE MATERIAL INCLUDE INCINERATION AND LAND FARMING, IF PERMITTED.

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===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:480 F TO 840 F

Melt/Freeze Pt:10 AIR=1

Spec Gravity:0.88-0.91, ASTM D-1250

Solubility in Water:NEGLIGIBLE,