

LYONDALL LUBRICANTS -- AMPROL TYPE II TRANSFORMER OIL,11104 -- 9160-00-075-9816

===== Product Identification =====

Product ID:AMPROL TYPE II TRANSFORMER OIL,11104

MSDS Date:03/24/1997

FSC:9160

NIIN:00-075-9816

MSDS Number: CHHMC

=== Responsible Party ===

Company Name:LYONDALL LUBRICANTS

Address:12000 LAWNDAL E AVE

Box:2451

City:HOUSTON

State:TX

ZIP:77252-2451

Country:US

Info Phone Num:800-447-4572

Emergency Phone Num:800-313-7646(800-424-8300 CHEMTREC)

CAGE:07G23

=== Contractor Identification ===

Company Name:LYONDALL LUBRICANTS

Address:12000 LAWNDAL E AVE

Box:2451

City:HOUSTON

State:TX

ZIP:77252-2451

Country:US

Phone:800-447-4572

CAGE:07G23

===== Composition/Information on Ingredients =====

Ingred Name:SEVERELY HYDROTREATED LIGHT NAPHTHENIC DISTILLATE, (TYPE II
ELECTRICAL TRANSFORMER OIL), (MINERAL OIL)

CAS:64742-53-6

RTECS #:PY8036000

Fraction by Wt: 99.5%

Other R

EC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3 (OIL MIST)
ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name:ADDITIVE MIXTURE OXIDATION INHIBITORS (PROPRIETARY)
Fraction by Wt: 0.5%
Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

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:EYES: NO IRRITATION EXPECTED FROM

SHORT-TERM EXPOSURE. SKIN: MILD IRRITATION FROM SHORT-TERM EXPOSURE. INHALATION: MISTS OR VAPORS MAY IRRITATE THE MUCOUS MEMBRANES OF THE NOSE, THROAT, BRONCHI, AND L UNGS. ASPIRATION INTO LUNGS MAY CAUSE LIPOID PNEUMONIA. INGESTION: NOT LIKELY TO OCCUR. IT MAY CAUSE A LAXATIVE EFFECT.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SKIN: MILD IRRITATION FROM SHOT EXPOSURE.

PROLONGED AND/OR REPEATED CONTACT MAY PRODUCE MILD TO MODERATE SKIN IRRITATION, IN

FLAMMATION, 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.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF PAIN OR REDNESS PERSISTS, GET MEDICAL ATTENTION. SKIN: REMOVE CONTA

MINATED

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.

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

Flash Point Method:PMCC

Flash Point:300F,149C

Lower Limits:1.0 %

Upper Limits:7.0%

Extinguishing Media:SMALL FIRE: DRY CEMICALS,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.

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

Handling and Storage Precautions:TO AVOID PRODUCT DEGRADATION, WATER
CONTAMINATION SHOULD BE AVOIDED AND MINIMUM HANDLING TEMPERATURES
SHOULD BE MAINTAINED.MINIMIZE EXPOSURE TO >200F.

Other Precautions:KEEP CONTAINER CLOSED AND IN A DRY, COOL,
WELL-VENTILATED PLACE. STORE AWAY FROM EXTREME HEAT, RADIATION
SOURCES, AND STRONG OXIDIZING AGENTS. DO NOT PUNCTURE, INCINERATE,
OR STORE CONTAINERS AT TEMPERATURES ABOVE 120F OR IN DIRECT
SUNLIGHT.

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

Respiratory Protection:NONE NORMALLY REQUIRED WITH ADEQUATE
VENTILATION. IF TLV/PEL OF 5 MG/M3 IS EXCEEDED 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 I

MPERVIOUS

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. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

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

HCC:N1

Boiling Pt:B.P. Text:480F,249C

Vap

or Pres:0.1 MM HG

Vapor Density:>10 AIR=1

Spec Gravity:0.88-0.91

pH:UNKNON

Solubility in Water:NEGLIGIBLE

Appearance and Odor:TRANSPARENT,LILY WHITE TO SLIGHTLY YELLOW LIQUID.

HYDROCARBON LUBE OIL ODOR.

Percent Volatiles by Volume:NEG

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, ALKALIES, OXIDIZERS SUCH AS OXYGEN AND LIQUID CHLORINE.

Stability Condition to Avoid:EXTREME HEAT, OPEN FLAME.

Hazardous Decomposition

Products:SMOKE, CARBON MONOXIDE, CARBON

DIOXIDE, PHENOL, AMMONIA, OXIDES AND OTHER COMPOUNDS OF NITROGEN.FREE AROMATIC AMINES.

===== Disposal Considerations =====

Waste Disposal Methods:USE APPROVED TREATMENT TRANSPORTERS AND DISPOSAL SITES IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SPILL MATERIAL IS BIODEGRADABLE IF GRADUALLY EXPOSED TO MICROORGANISMS. PREFERABLY IN AN AEROBIC ENVIRONMENT.

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ormation by the compiling agencies):

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