

MATERIAL SAFETY DATA SHEET FOR REFRIGERATION OIL 300

TOTAL Lubricants USA Southwest  
400 Chisholm Place, Suite 418  
Plano, Texas 75075

TOTAL Lubricants USA, Inc.  
5 N. Stiles Street  
Linden NJ 07036

REVISION DATE  
N/A

DATE ISSUED  
1-June-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: REFRIGERATION OIL 300 (Apx ISO 68)  
PRODUCT #: 1-16002  
CHEMICAL NAME: Severely hydrotreated naphthenic oil  
CAS #'S: 64742-52-5

PRODUCT APPEARANCE AND ODOR: Amber liquid, petroleum odor  
CHEMICAL FAMILY: Petroleum hydrocarbon

SYNONYMS: Naphthenic refrigeration oil  
EMERGENCY TELEPHONE: 1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS: W/W HAZARD DATA (TLV, LD50, LC50, ETC.):  
Petroleum based lubricating oil 5 mg/m3 TWA (OSHA, ACGIH)  
CAS# 64742-53-6, 64742-52-5\*

\* Naphthenic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):  
Health 0 Flammability 1 Reactivity 0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:  
Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:  
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:  
As with all petroleum products, if this product contacts skin, wash affected area thoroughly with soap and water to prevent irritations from occurring. Oil soaked clothing should be removed and laundered frequently to minimize skin contact with product. Prolonged contact with skin may cause irritation.

INHALATION:  
Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:  
If ingested, do not induce vomiting. Call a physician immediately.

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FIRE AND EXPLOSION HAZARD INFORMATION  
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FLASH POINT (MINIMUM):  
295F (146 C) Test method: COC

AUTOIGNITION TEMPERATURE:  
>400 F

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:  
Health            Flammability    Reactivity  
                  0                    1                    0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):  
Estimated values: lower: N/E                    upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, smoke, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

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HEALTH AND HAZARD INFORMATION  
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EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.  
Product contacting the eye may cause irritation.  
Product has a low order of oral and dermal toxicity.  
Possible aspiration hazard.  
Induced vomiting may cause aspiration of product into the lungs.  
(See Emergency First Aid Section).

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PHYSICAL DATA  
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The following data are approximate or typical values and should not be used for precise design purposes.

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BOILING RANGE:  
Wide range

VAPOR PRESSURE:  
< 0.5 @ 38°C/100°F

SPECIFIC GRAVITY (25°C/25°C):  
(WATER = 1)  
< 1.0

VAPOR DENSITY (AIR = 1):  
> 5

MOLECULAR WEIGHT:  
Wide range

PERCENT VOLATILE BY VOLUME:  
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C  
(77°F) (n-BUTYL ACETATE = 1):  
< 1.0

SOLUBILITY IN WATER @ 1 ATM. and 25°C  
(77°F):  
Negligible

POUR, CONGEALING OR MELTING POINT:  
n/e

FREEZING POINT:  
n/e

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REACTIVITY  
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This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:

Open flames.

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TOXICITY  
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ORAL (Acute) N/E  
DERMAL (Acute) N/E  
EYE N/E  
INHALATION (Acute) N/E

CHRONIC, SUBCHRONIC, ETC. N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

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SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

