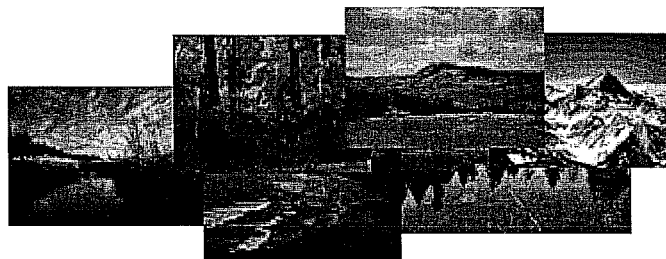


# Evergreen

Evergreen Oil, Inc.



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## Evergreen Base Oils

### MSDS for 110 NEUTRAL BASE OIL; 110 NEUTRAL OIL

#### MATERIAL SAFETY DATA SHEET

EVERGREEN OIL, INC  
6880 SMITH AVE  
NEWARK, CA. 94560  
(510) 795-4400

FURTHER INFO: (510) 795-4400  
*EMERGENCY* - TRANSPORTATION:  
CHEMTREC (800) 424-9300  
*EMERGENCY* - HEALTH: 911

#### SUBSTANCE IDENTIFICATION

IDENTITY: 110 NEUTRAL BASE OIL; 110 NEUTRAL OIL

CAS NUMBER: 64742-58-1

SYNONYM / TRADE NAMES: NEUTRAL OIL; HVI PARAFFINIC, PETROLEUM OIL,

FAMILY / CHEMICAL NAME: RE-REFINED, HYDROTREATED HYDROCARBON, PETROLEUM; RE-REFINED, LUBRICATING OIL

NFPF RATINGS (SCALE 0-4): O-HEALTH, 1-FIRE, 0-REACTIVITY

MSDS FORM NO.: 100MSDS.DOC992

#### HAZARDOUS INGREDIENTS

THIS PRODUCT FITS THE ACGIH DEFINITION FOR MINERAL OIL MIST.

PETROLEUM HYDROCARBON - AS MIST

PERCENT: 100

*EXPOSURE LIMITS IN AIR*

OSHA PEL TWA	5 MG/M3 <sup>3</sup>
OSHA PEL STEL	NONE ESTABLISHED
ACGIH TLV TWA	5 MG/M3 <sup>3</sup>
ACGIH TLV STEL	10 MG/M3 <sup>3</sup>
CAL OSHA TWA	5 MG/M3 <sup>3</sup>

**PHYSICAL PROPERTIES**

VAPOR DENSITY: >1 (AIR = 1)	MELTING PT.: NOT APPLICABLE
SPECIFIC GRAVITY: 0.85 TO 0.88 @60 °F	BOILING POINT: ABOVE 600 °F (316 °C)
SOLUBILITY IN WATER: INSOLUBLE	EVAPORATION RATE: 0.001 (ETHER=1)
VAPOR PRESSURE: <0.001 MM HG @ 20 °C	% VOLATILE: NEGLIGIBLE
DENSITY: 7.1 LBS/GAL	PH: NOT APPLICABLE
COEFFICIENT OF WATER/OIL DIST.: NA.	POUR PT: -15 F
MOLECULAR WEIGHT: >400	API GRAVITY: 30 TO 33 ° API @ 60 °F
HOW TO DETECT THIS SUBSTANCE :	VISCOUS, OILY, AMBER COLORED LIQUID, WITH A CHARACTERISTIC PETROLEUM ODOR AND SLIPPERY FEEL.

**FIRE AND EXPLOSION DATA**

FLASH PT: >360 °F (182 °C)	AUTOIGNITION TEMP: NA.
COC	
LOWER FLAMMABLE LIMIT: 1 VOL. % (MIST)	UPPER FLAMMABLE LIMIT: 10 VOL. % (MIST)
EXTINGUISHING MEDIA:	CARBON DIOXIDE, FOAM, DRY CHEMICAL

*HAZARDOUS COMBUSTION PRODUCTS*

THERMAL DECOMPOSITION AND BURNING MAY PRODUCE THE FOLLOWING HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, HYDROGEN SULFIDE, NITROGEN OXIDES, AND OTHER TOXIC MATERIALS.

*UNUSUAL FIRE AND EXPLOSION HAZARDS*

MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES

UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS AND DRUMS - HEATED CONTAINERS MAY RUPTURE, EXPLODE OR BE THROWN INTO THE AIR. HEATED VAPORS MAY BE SENSITIVE TO STATIC DISCHARGE - RESULTING IN FIRE OR EXPLOSION.

#### *FIRE FIGHTING PROCEDURES*

WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR DISCOLORATION OF TANK DUE TO FIRE. KEEP STORAGE CONTAINERS COOL WITH WATER SPRAY. USE SELF-CONTAINED BREATHING APPARATUS (SCBA).

NFPA 704 RATING HEALTH=0, FIRE=1,  
(0=LEAST, 4=EXTREME) : REACTIVITY=0;

#### **HEALTH HAZARD INFORMATION**

##### **SYMPTOMS OF EXPOSURE**

##### *ACUTE:*

- INHALED:** HIGH CONCENTRATIONS OF VAPOR OR MIST MAY BE IRRITATING TO THE RESPIRATORY TRACT, INCLUDING NOSE AND THROAT. MAY CAUSE DIFFICULTY BREATHING.
- SKIN:** THIS MATERIAL MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE REDNESS, BURNING, AND DERMATITIS. CONTACT WITH HOT MATERIAL MAY CAUSE THERMAL BURNS.
- EYES:** CONTACT MAY CAUSE SLIGHT TO MODERATE IRRITATION, INCLUDING BURNING, TEARING, AND REDNESS. CONTACT WITH HOT MATERIAL MAY CAUSE THERMAL BURNS.
- SWALLOWING (INGESTION):** MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT, NAUSEA AND VOMITING. ASPIRATION INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY AND POSSIBLY DEATH.

***CHRONIC***

PROLONGED AND/OR REPEATED SKIN CONTACT MAY CAUSE DRYING AND CRACKING OR DERMATITIS. EXPOSURE TO HIGH OIL MIST CONCENTRATIONS MAY LEAD TO OIL PNEUMONIA.

***MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE***

CONTACT WITH SKIN MAY AGGRAVATE PRE-EXISTING DERMATITIS.

***CARCINOGENICITY***

NO INGREDIENTS OF THIS PRODUCT, PRESENT AT EQUAL TO OR GREATER THAN 0.1% OF THE PRODUCT, ARE LISTED BY OSHA, NTP OR IARC AS SUSPECTED CARCINOGENS.

**EMERGENCY AND FIRST AID PROCEDURES****INHALED (BREATHING):**

REMOVE TO FRESH AIR IMMEDIATELY. IF THERE IS DIFFICULTY BREATHING OR IF BREATHING HAS STOPPED, OXYGEN OR ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. DO NOT LEAVE VICTIM UNATTENDED. SEEK IMMEDIATE MEDICAL ATTENTION IF NECESSARY.

**SKIN:**

REMOVE CONTAMINATED CLOTHING AND SHOES. DO NOT USE GASOLINE, THINNERS OR SOLVENTS TO REMOVE PRODUCT FROM SKIN. WIPE MATERIAL FROM SKIN AND WASH THOROUGHLY WITH SOAP AND WATER, AND IF NECESSARY A WATERLESS SKIN CLEANSER. CONSULT PHYSICIAN IF IRRITATION OR PAIN PERSISTS.

**EYES:**

FOR DIRECT CONTACT, FLUSH EYES WITH WATER FOR 15 MINUTES LIFTING UPPER AND LOWER LIDS OCCASIONALLY. CONSULT PHYSICIAN IF IRRITATION OR PAIN PERSISTS.

**SWALLOWING (INGESTION):**

DO NOT INDUCE VOMITING, BECAUSE

MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE DAMAGE. DRINK 4 TO 8 OUNCES OF WATER AND SEEK IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS, OR IF COMATOSE OR LETHARGIC, PLACE ON THE LEFT SIDE WITH THE HEAD DOWN - SEEK IMMEDIATE MEDICAL ATTENTION.

**NOTE TO PHYSICIAN:**

ADMINISTRATION OF GASTRIC LAVAGE, IF WARRANTED, SHOULD BE PERFORMED BY QUALIFIED MEDICAL PERSONNEL.

**REACTIVITY DATA**

STABILITY:	STABLE, NOT REACTIVE WITH WATER.
INCOMPATIBILITY:	MAY REACT WITH STRONG OXIDIZING AGENTS, SUCH AS; CHLORATES, NITRATES AND PEROXIDES. AVOID HEAT, SPARKS, AND FLAMES.
HAZARDOUS POLYMERIZATION:	NOT KNOWN TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.
HAZARDOUS DECOMPOSITION:	NO DECOMPOSITION PRODUCTS UNDER NORMAL PRODUCT CONDITIONS

*SPECIAL PRECAUTIONS:*

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. DO NOT WELD, HEAT OR DRILL CONTAINER. RESIDUE MAY IGNITE WITH EXPLOSIVE VIOLENCE IF HEATED SUFFICIENTLY. CAUTION..DO NOT USE PRESSURE TO EMPTY DRUM OR EXPLOSION MAY RESULT.

**SPILL, LEAK, AND DISPOSAL PROCEDURES**

*SPILL PROCEDURE*

REMOVE ALL IGNITION SOURCES, AND AVOID BREATHING VAPORS. VENTILATE AREA IF CONFINED. CONTAIN AS A LIQUID FOR POSSIBLE RE-REFINING IF POSSIBLE BY DIKING AROUND OIL WITH A SUITABLE MATERIAL. IF NOT, ABSORB SPILLED LIQUID IN SAND OR INERT ABSORBENT. CONTAIN AWAY FROM SURFACE WATERS AND SEWERS. SHOVEL INTO CLOSABLE CONTAINER FOR DISPOSAL. CONTACT THE COAST GUARD NATIONAL RESPONSE CENTER (800) 424-8802 IF A SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS

ZONE, OR ADJOINING SHORELINES.

*WASTE DISPOSAL METHODS*

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS. CONTACT EVERGREEN OIL REGARDING RECYCLING OR DISPOSAL.

**SPECIAL HANDLING INFORMATION**

*VENTILATION AND HANDLING PRECAUTIONS*

KEEP AWAY FROM HEAT, SPARKS AND FLAMES. AVOID CONTACT WITH EYES AND SKIN, AND AVOID BREATHING VAPORS OR MISTS. AVOID GENERATING OIL MISTS.

*RESPIRATORY PROTECTION*

WHEN AIRBORNE CONCENTRATIONS EXCEED RECOMMENDED EXPOSURE LIMITS, A MSHA/NIOSH APPROVED RESPIRATORY PROTECTIVE EQUIPMENT SHOULD BE WORN, SUCH AS AN ORGANIC VAPOR FILTER REPIRATOR. A SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED FOR FIRE EMERGENCIES.

*EYE PROTECTION*

WHERE THERE IS A LIKELIHOOD OF A SPILL OR SPLASH, WEAR CHEMICAL GOGGLES AND FACE SHIELD. CONTACT LENSES SHOULD NOT BE WORN.

*HAND PROTECTION*

USE LATEX, NEOPRENE, NITRILE RUBBER, OR EQUIVALENT GLOVES TO PREVENT CONTACT WITH THE SKIN. BARRIER CREAMS THAT ARE SPECIFIC FOR OIL-BASED MATERIALS ARE RECOMMENDED WHEN GLOVES ARE IMPRACTICAL.

*OTHER PROTECTIVE CLOTHING*

WEAR APPROPRIATE BOOTS, COVERALLS OR OTHER PROTECTIVE CLOTHING WHERE SPILLS AND SPLASHES ARE POSSIBLE. A SOURCE OF CLEAN WATER SHOULD BE AVAILABLE IN WORK AREAS FOR FLUSHING THE EYES AND SKIN IF NECESSARY.

*STORAGE*

STORE IN A COOL , DRY LOCATION. KEEP AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT PRESSURIZE, CUT, HEAT, WELD, OR EXPOSE CONTAINERS TO FLAME OR OTHER SOURCES OF IGNITION.

**TRANSPORTATION AND OTHER REGULATORY**

**INFORMATION**

DOT SHIPPING NAME: LIGHT NEUTRAL, MEDIUM NEUTRAL  
 DOT ID NUMBER: NOT APPLICABLE  
 DOT CLASS: NOT APPLICABLE  
 TSCA: COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

*SARA TITLE III:*

PRODUCT DOES NOT CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND RE AUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

<i>SECTION 311 CATEGORIES:</i>	IMMEDIATE (ACUTE) HEALTH EFFECT;	YES
	DELAYED (CHRONIC) HEALTH EFFECTS;	NO
	FIRE HAZARD;	NO
	SUDDEN RELEASE OF PRESSURE HAZARD;	NO
	REACTIVITY HAZARD;	NO

*CALIFORNIA PROP 65:* THIS PRODUCT MAY CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. (SEE ALSO THE HEALTH HAZARD INFORMATION SECTION).

THE INFORMATION CONTAINED IN THIS MSDS IS BELIEVED TO BE ACCURATE, AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO EVERGREEN OIL. EVERGREEN OIL MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND ASSUMES NO LIABILITY RESULTING FROM USE OF THIS INFORMATION. USERS OF THIS PRODUCT SHOULD MAKE THEIR OWN EVALUATION TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR PARTICULAR PURPOSES, AND SHOULD ESTABLISH SAFE HANDLING

## PROCEDURES.

PREPARED BY: LAB MSDS COORDINATOR

REVISED: December 20, 2004      SUPERSEDES: July 01, 2003

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