SUREGUARD PRODUCTS
MATERIAL SAFETY DATA SHEET

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product.

ND - Not Determined  NA - Not Applicable  NT - Not Tested
LT - Less Than  GT - Greater Than  AP - Approximately

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY
Product Code and Name:
SUR3500/3506/3555 SureGuard Tractor Hydraulic Fluid
Chemical Name and/or Family or Description:
Petroleum hydrocarbons and additives

Manufacturer's Name and Address:
SUREGUARD PRODUCTS
492 White Sand Road
Poplarville, MS 39470

Telephone Numbers:
Transportation Emergency-Company: 800-256-7575
CHEMTREC (USA): 800-424-9300
In Canada: 800-567-7455
Health Emergency -Company: 800-256-7575
General MSDS Assistance: 504-748-9687
Contact: Darryl Miller
Fax-Company: 504-748-3004
Technical Information -Lubricant: 800-256-7575

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR
Product and/or Component(s) Carcinogenic According to:
OSHA  IARC  NTP  OTHER  NONE  X

Composition: (Sequence Number and Chemical Name)

<table>
<thead>
<tr>
<th>Seq.</th>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Concentration Wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Solvent-refined heavy paraffinic petroleum distillates</td>
<td>64741-88-4</td>
<td>AP 0 to 60</td>
</tr>
<tr>
<td>02</td>
<td>Hydrotreated heavy paraffinic petroleum distillates</td>
<td>64742-54-7</td>
<td>AP 0 to 60</td>
</tr>
<tr>
<td>03</td>
<td>Hydrotreated heavy naphthenic petroleum distillates</td>
<td>64742-52-5</td>
<td>AP 25 to 30</td>
</tr>
<tr>
<td>04</td>
<td>Hydrotreated re-refined lubricating petroleum oil</td>
<td>64742-58-1</td>
<td>AP 5 to 10</td>
</tr>
<tr>
<td>05</td>
<td>Hydrotreated light naphthenic petroleum distillates</td>
<td>64742-53-6</td>
<td>AP 0 to 3</td>
</tr>
<tr>
<td>06</td>
<td>Zinc C1-C14 dialkyl dithiophosphates</td>
<td>68649-42-3</td>
<td>AP 1 to 2</td>
</tr>
<tr>
<td>07</td>
<td>Corrosion and oxidation inhibitors containing calcium, boron &amp; nitrogen</td>
<td>Proprietary</td>
<td>AP 1 to 5</td>
</tr>
</tbody>
</table>

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).
* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.
# COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST.

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID
3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW
Appearance:
Light straw to light yellow.
Odor:
Hydrocarbon lube oil.

WARNING STATEMENT
Potentially Health Effects

<table>
<thead>
<tr>
<th>EYE</th>
<th>SKIN</th>
<th>INHALATION</th>
<th>INGESTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>-</td>
</tr>
</tbody>
</table>

Primary Route of Exposure: X X X

Effects of Overexposure

Acute:

Eyes:
This product may cause mild transient eye irritant from mists or direct contact.

Skin:
This product may cause mild transient skin irritant.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation:
Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion:
Generally of a low order of toxicity. If swallowed, there is a slight risk of aspiration into the lungs and causing damage. Upon ingestion, abdominal discomfort, nausea, diarrhea and headache may occur.

Sensitization Properties:
Unknown.

Chronic:
No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:
Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).
Other Remarks:
Material from high pressure equipment, pinhole leaks, or high pressure line failure can penetrate the skin and, if not properly treated, can cause severe injury, including disfigurement, loss of function, or even require amputation of the affected area. To prevent such serious injury, immediate medical attention should be sought even if the injection injury appears to be minor.

When overheated, product may release hydrogen sulfide (H2S) gas. H2S concentrations above permissible concentrations can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomiting, diarrhea and pulmonary edema. At concentrations above 300 ppm, respiratory paralysis, causing unconsciousness and death, can occur.

4. FIRST AID MEASURES

Eyes:
Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin:
Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:
If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:
If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:
High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.
Ignition Temperature - AT (degrees F):
   Not determined.
Flash Point (degrees F):
   400
Flammable Limits (%):
   Lower: Not determined.
   Upper: Not determined.

Recommended Fire Extinguishing Agents And Special Procedures:
   CO₂, dry chemical, foam, water fog.

Unusual or Explosive Hazards:
   Water may cause frothing. Material may be ignited by sparks or flames.

Extinguishing Media Which Must Not Be Used:
   Not determined.

Special Protective Equipment for Firefighters:
   Wear full protective clothing and positive pressure breathing apparatus.

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID
6. ACCIDENTAL RELEASE MEASURES
   (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:
   Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID
7. HANDLING AND STORAGE

Precautions to be Taken in Handling:
   Minimum feasible handling temperatures should be maintained.

Storage:
   Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)
Eye/Face Protection:
Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:
Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Respiratory Protection:
Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:
Adequate to meet component occupational exposure limits (see Section 2).

Exposure Limit for Total Product:
None established for product; refer to Section 2 for component exposure limits.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Light straw to light yellow liquid.

Odor:
Hydrocarbon lube oil.

Boiling Point:
GT 500° to 1,005° F

Melting/Freezing point (degrees F):
LT -40°

Specific Gravity (water=1):
AP 0.90 at 60° F
The components of this product are classified as severely (Not Mildly) hydrotreated under both IARC and OSHA definitions.

When tested separately, all petroleum-based oils contained in this product (solvent-refined heavy paraffinic distillate, severely hydrotreated heavy and light naphthenic distillates, and severely hydrotreated re-refined lubricating oil), as well as the proprietary corrosion and oxidation inhibitor additive package, showed inhalation, ingestion, and dermal LD50 values of greater than their respective rat and rabbit non-toxic screen levels. Using short-term Buehler (guinea pig) and Draize (rabbit) test protocols, all these base oils were shown to be non-sensitizing and non-irritating to the skin and eyes, with exception of a mild skin irritation response for severely hydrotreated light naphthenic distillate.

When tested separately using standard rabbit skin painting protocols, all these base oils showed minimal to moderate irritation following 28 days of repeated application.

Lifetime (104-week) mouse skin painting studies showed solvent-refined heavy paraffinic distillate and high-viscosity, severely hydrotreated heavy naphthenic distillates are NOT carcinogenic, no tumors developed at the sites of application. However, low-viscosity, severely hydrotreated light and heavy naphthenic distillates produced skin masses on some mice which correlated with the skin irritation response levels of individual test animals. Additional studies attributed these masses to a weak promotional activity and proved that these base oils are not tumor initiators nor complete chemical carcinogens.

The proprietary corrosion and oxidation inhibitor additive package in this product has shown slight to moderate eye and moderate skin irritation. These Draize responses can be attributed to the zinc C1-C14 dialkyl dithiophosphates (ZDDP) and 2-ethylhexanol components of this additive package. Tested separately, their rabbit, guinea pig, mouse and rat LD50 values range between 1,180 and 3,730 mg/kg for acute ingestion and between 1,670 and 4,600 mg/kg for dermal toxicity with symptoms of CNS depression and dyspnea.

Sub-chronic (9 to 21-day), high-dose (9,000 to 25,200 mg/kg) 2-ethylhexanol feeding studies in rats and mice showed blood cell count and serum changes plus some liver and kidney damage. Also, a dermal toxicity study (11 days at 7,500 mg/kg) in rats showed dermatitis, decreased blood cell counts and triglycerides, and decreased spleen weights.

When pregnant rats were dosed with up to 3 ml/kg of 2-ethylhexanol applied to the skin during the most critical part of the gestation period, maternal toxicity occurred, but there was no evidence of injury to the developing offspring. But, when pregnant rats and mice were fed 2-ethylhexanol during their gestation period, newborns showed reduced growth statistics and some mortality.

ZDDP caused testicular damage or atrophy in male rats and rabbits when applied to the skin in a dose of 500 mg/kg at 15 days prior to mating. An industrial hygiene survey of workers handling ZDDP and its derivatives found no adverse effects on sperm production of fertility.

Severely hydrotreated light naphthenic distillate and 2-ethylhexanol showed positive mutagenic responses only in the in-vitro mouse lymphoma assay and Ames Salmonella/microsome assay, respectively. All the other base oils in this product and ZDDP showed negative or equivocal responses in all the mutagenicity assays employed (modified Ames, in-vitro CHO sister chromatid exchange, and in-vitro rat bone marrow protocols).
pH of undiluted product:
   Not applicable.

Vapor Pressure:
   LT 0.1 mm of Hg at 70°F

Viscosity:
   65.75 cSt at 40.0°C

Vapor Density (air=1):
   GT 10

Solubility in Water (%):
   Negligible.

% Volatiles by Volumes:
   Negligible.

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:
(If Others is checked below, see comments for details)
   Air  Water  Heat  Strong Oxidizers  Others  None of These
   X

Comments:
Under extreme temperatures or extended storage periods, hydrogen sulfide
(H2S) gas may accumulate in the head-space of container.

Products Evolved When Subjected to Heat or Combustion:
Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and
ketones, and combustion products or compounds of
zinc, phosphorus, sulfur (may include hydrogen sulfide).

Hazardous Polymerization’s: DO NOT OCCUR

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION(ANIMAL TOXICITY DATA)

The International Agency for Research on Cancer (IARC), one of the Occupational Safety and Health
Administration’s (OSHA) authorities for establishing carcinogenic potential, has specifically evaluated
naphthenic oils. IARC found that mildly hydrotreated (hydrofinished) naphthenic oils are carcinogenic
to laboratory animals. IARC has NOT found severely hydrotreated naphthenic oils to be carcinogenic.
Waste Disposal Methods
Maximize product recovery for reuse or recycling. Conditions of use may cause this material to become a “Hazardous Waste”, as defined by state or federal laws. Use approved treatment, transporters, and disposal sites in compliance with all applicable regulations. If spill is introduced into a wastewater treatment system, chemical and biological oxygen demand will likely increase. Spill material is biodegradable if gradually exposed to microorganisms, preferably in an aerobic environment. Potential treatment and disposal methods include land farming, incineration, and land disposal, if permitted.

Remarks
None

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID
13. TRANSPORT INFORMATION

Transportation
DOT: NOT A U.S. DEPARTMENT OF TRANSPORTATION REGULATED MATERIAL
Proper Shipping Name: Petroleum Lubricating Oil
Not regulated

IMDG:
Proper Shipping Name: Petroleum Lubricating Oil
Not regulated

ICAO:
Proper Shipping Name: Petroleum Lubricating Oil
Not regulated

TDG:
Proper Shipping Name: Petroleum Lubricating Oil
Not regulated

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID
14. REGULATORY INFORMATION

Federal Regulations:
SARA Title III:
Section 302/304 Extremely Hazardous Substances
Seq. Chemical Name CAS Number Range in %
None
Section 302/304 Extremely Hazardous Substances (CONT)
Seq. TPQ RQ
None
Testing on one of this product's base oil components indicated that the above listed polynuclear aromatic hydrocarbon (PNA or PAH) compounds were present in very low ppm concentrations and may not always be analytically detectable.

Michigan Hazardous Waste Management Act

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>AP 0.10 to 0.20</td>
</tr>
</tbody>
</table>

International Regulations:

WHMIS Classification:
Not controlled

Canada Inventory Status:
This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:
Not determined.

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID

15. ENVIRONMENTAL INFORMATION

Mobility:
Not determined.

Persistence and Biodegradability:
This product is reported to have a moderate (>= 30%) rate of biodegradation in a test for ready biodegradation.

Potential to Bioaccumulate:
Not determined.

Remarks:
None

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID

16. OTHER INFORMATION

None

SUR3500/3506/3555 SureGuard TRACTOR HYDRAULIC FLUID

17. PRODUCT LABEL

Label Date: 1998-10-30

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE
HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

SUR3500/3506/3555 SUREGUARD TRACTOR HYDRAULIC FLUID

WARNING STATEMENT
NONE CONSIDERED NECESSARY

PRECAUTIONARY MEASURES

-Avoid prolonged breathing of vapor, mist, or gas.
-Workers should wash exposed skin several times daily with soap and water.

FIRST AID

Eye Contact:
Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin Contact:
Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:
If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:
If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Note to Physician:
High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

FIRE

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers.

| Chemical Name | CAS Number | Concentration Wt% |
Section 311/312 Hazardous Categorization:
Acute Chronic Fire Pressure Reactive N/A
X X

Section 313 Toxic Chemical
Chemical Name: Zinc C1-C14 dialkyl dithiophosphates
CAS Number: 68649-42-3

CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance)
Seq. Chemical Name: None
CAS Number: Range in %: None
CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's):
Seq. RQ: None

TSCA Inventory Status:
Chemical Name: 2-Ethylhexanol
CAS Number: 104-76-7

Clean Air Act - Section 111 (40 CFR60.48)
Chemical Name: 2-Ethylhexanol
CAS Number: 104-76-7

Clean Water Act - Section 311
This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990 (40 CFR 112). Discharge or spills which produce a visible sheen on either navigable surface water, or in waterways and sewers which lead to navigable surface water, must be reported to National Response Center (800-424-8802).

Other:
None.

State Regulations:
California Proposition 65:
The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name: BENZOL(a)PYRENE
CAS Number: 050-32-8
Chemical Name: BENZOL(a)ANTHRACENE
CAS Number: 056-55-3
Chemical Name: BENZOL(b)FLUORANTHRACENE
CAS Number: 205-99-2
Chemical Name: DIBENZO(a,h)ANTHRACENE
CAS Number: 053-70-3
Chemical Name: CHRYSENE
CAS Number: 205-99-2
Solvent-refined heavy paraffinic petroleum distillates  64741-88-4  AP 0 to 60
Hydrotreated heavy paraffinic petroleum distillates  64742-54-7  AP 0 to 60
Hydrotreated heavy naphthenic petroleum distillates  64742-52-5  AP 25 to 30
Hydrotreated re-refined lubricating petroleum oil  64742-58-1  AP 5 to 10
Hydrotreated light naphthenic petroleum distillates  64742-53-6  AP 0 to 3
Zinc C1-C14 dialkyl dithiophosphates  68649-42-3  AP 1 to 2
Corrosion and oxidation inhibitors containing calcium, boron & nitrogen  Proprietary  AP 1 to 5

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).

* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.
* COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST.

Pennsylvania Special Hazardous Substance(s)  CAS Number  Range in %
None

HMIS  NFPA
Health:  *1  Reactivity:  0  Health:  1  Reactivity:  0
Flammability:  1  Special :  -  Flammability:  1  Special :  -

Transportation
DOT:  NOT A U.S. DEPARTMENT OF TRANSPORTATION REGULATED MATERIAL
Proper Shipping Name:  Petroleum Lubricating Oil
Not regulated

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

Manufacturer's Name and Address:
SUREGUARD PRODUCTS
492 White Sand Road
Poplarville, MS 39470
THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF SUREGUARD PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL SUREGUARD PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL SUREGUARD PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. SUREGUARD PRODUCTS DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

Date: 1998-10-30

Inquiries regarding MSDS should be directed to:
SureGuard Products
Darryl Miller, Product Safety
P.O. Box 530
Roseland, LA 70456-0530