OILS, MISCELLANEOUS: SPINDLE

CAUTIONARY RESPONSE INFORMATION Common Synonyms Light brown like odor Bearing oil High speed bearing oil Floats on water Call fire department. Avoid contact with liquid Notify local health and pollution control agencies. Combustible Extinguish with foam, dry chemical, or carbon dioxide. Water may be ineffective on fire. CALL FOR MEDICAL AID. **Exposure** LIQUID LIQUID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water, IF SWALLOWED and victim is CONSCIOUS, have victim drink water or rolls. DO NOT INDUCE VOMITING Dangerous to aquatic life in high concentrations. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes. Water **Pollution**

| 1. CORRECTIVE RESPONSE ACTIONS | | | | | | |
|--------------------------------|--|--|--|--|--|--|
| Stop discharge | | | | | | |
| Contain | | | | | | |
| Collection Systems: Skim | | | | | | |

Chemical and Physical Treatment: Burn; Clean shore line

2. CHEMICAL DESIGNATIONS

2. CREMINEA DESIGNATIONS
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2. Compatibility Group: 33:
Miscellaneous Hydrocarbon Mixtures
2.3 IM/O/UN Designation: 3.3/1270
2.4 DOT ID No.: 1288
2.5 CAS Registry No.: Currently not available
2.6 NAERG Guide No.: 127
2.7 Standard Industrial Trade Classification:
33450

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Protective gloves; goggles or face shield.
- 3.2 Symptoms Following Exposure: Vapor causes slight irritation of eyes and nose. Liquid irritates stomach; if taken into lungs, causes coughing, distress, and rapidly developing pulmonary edema.

 3.3 Treatment of Exposure: ASPIRATION: enforce bed rest; administer oxygen; call a doctor.
- INGESTION: do NOT induce vomiting; call a doctor. EYES: wash with copious amounts of water. SKIN: wipe off and wash with soap and water.
- 3.4 TLV-TWA: Not listed.
- 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 1; LD50 = 5 to 15 g/kg
- 3.8 Toxicity by Inhalation: Currently not available.
- 3.9 Chronic Toxicity: Currently not available
- 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of eyes or respiratory system if present in high concentrations. The effect istemporary.

 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may
- cause smarting and reddening of skin.
- 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: Not listed
- 3.14 OSHA PEL-TWA: Not listed.
- 3.15 OSHA PEL-STEL: Not listed
- 3.16 OSHA PEL-Ceiling: Not listed
- 3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

- 4.1 Flash Point: 169°F C.C.
- **4.2 Flammable Limits in Air:** Currently not available
- **4.3 Fire Extinguishing Agents:** Foam, dry chemical, or carbon dioxide
- **4.4 Fire Extinguishing Agents Not to Be Used:** Water may be ineffective.
- 4.5 Special Hazards of Combustion
- Products: Not pertinent 4.6 Behavior in Fire: Not pertinent
- 4.7 Auto Ignition Temperature: 478°F
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: Not
- 4.12 Flame Temperature: Currently not available
- 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.
- 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY

- 5.1 Reactivity with Water: No reaction
- 5.2 Reactivity with Common Materials: No reaction
- 5.3 Stability During Transport: Stable
- 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
- 5.5 Polymerization: Not pertinent
- 5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

- 6.1 Aquatic Toxicity: 2990 ppm/24 hr/bluegill/TLm/fresh water
- 6.2 Waterfowl Toxicity: Currently not
- 6.3 Biological Oxygen Demand (BOD): 53%,
- 6.4 Food Chain Concentration Potential:
- 6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: Several grades, all with same hazard assessment.
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester)
- 7.5 IMO Pollution Category: Currently not available
- 7.6 Ship Type: Currently not available

7.7 Barge Hull Type: Currently not available

8.1 49 CFR Category: Flammable liquid

8. HAZARD CLASSIFICATIONS

- 8 2 49 CFR Class: 3
- 8.3 49 CFR Package Group: III
- 8.4 Marine Pollutant: No.
- 8.5 NFPA Hazard Classification:

| Category Classifi | catio |
|----------------------|-------|
| Health Hazard (Blue) | 0 |
| Flammability (Red) | 2 |
| Instability (Yellow) | 0 |

- 8.6 EPA Reportable Quantity: Not listed.
- 8.7 EPA Pollution Category: Not listed.
- 8.8 RCRA Waste Number: Not listed
- 8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL **PROPERTIES**

- 9.1 Physical State at 15° C and 1 atm: Liquid
- 9.2 Molecular Weight: Not pertinent
- 9.3 Boiling Point at 1 atm: Very high
- 9.4 Freezing Point: Not pertinent
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 0.881 at 15°C (liquid)
- 9.8 Liquid Surface Tension: Currently not
- **9.9 Liquid Water Interfacial Tension:** Currently not available 9.10 Vapor (Gas) Specific Gravity: Not pertinent
- 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
- 9.12 Latent Heat of Vaporization: Not pertinent
- 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Not pertinent
- 9.15 Heat of Solution: Not pertinent
- 9.16 Heat of Polymerization: Not pertinent
- 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not

NOTES

OILS, MISCELLANEOUS: SPINDLE

| 9.20 SATURATED LIQUID DENSITY | | 9.21 LIQUID HEAT CAPACITY | | 9.22 LIQUID THERMAL CONDUCTIVITY | | 9.23 LIQUID VISCOSITY | |
|--|--|--|--|--|---|----------------------------|------------|
| Temperature (degrees F) | Pounds per cubic foot | Temperature (degrees F) | British thermal unit per pound-F | Temperature (degrees F) | British thermal unit inch per hour-square foot-F | Temperature (degrees F) | Centipoise |
| 50 52 54 56 68 60 62 64 66 68 70 72 74 78 80 82 84 | 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 54.930 | 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 95 100 105 | 0.417 0.419 0.422 0.424 0.426 0.429 0.431 0.434 0.436 0.438 0.441 0.443 0.445 0.448 0.450 0.453 0.455 0.457 0.460 0.462 | 65 70 75 80 85 90 105 110 115 120 125 130 135 140 140 145 150 150 160 160 160 170 175 185 | 0.977 | 100 | 25.850 |

| 9.24 SOLUBILITY IN WATER | | 9.25 SATURATED VAPOR PRESSURE | | 9.26 SATURATED VAPOR DENSITY | | 9.27 IDEAL GAS HEAT CAPACITY | |
|-----------------------------|--------------------------------|---|---|---------------------------------|-----------------------|---------------------------------|----------------------------------|
| Temperature (degrees F) | Pounds per 100 pounds of water | Temperature (degrees F) | Pounds per square inch | Temperature (degrees F) | Pounds per cubic foot | Temperature (degrees F) | British thermal unit per pound-F |
| | - Z % O L U B L E | 70 75 80 85 90 95 100 115 125 130 135 140 145 150 155 160 165 170 175 185 180 185 | 0.042 0.049 0.057 0.065 0.076 0.087 0.100 0.114 0.131 0.149 0.170 0.193 0.218 0.247 0.279 0.314 0.352 0.395 0.443 0.495 0.552 0.615 0.683 0.758 0.841 0.930 | | N O T PERTINENT | | N O T P E R T I N E N T |