OILS, MISCELLANEOUS: CROTON

CAUTIONARY RESPONSE INFORMATION Common Synonyms Floats on water KEEP PEOPLE AWAY. AVOID CONTACT WITH LIQUID. Notify local health and pollution control agencies. Protect water intakes Combustible Fire Extinguish with dry chemicals, foam or carbon dioxide Water may be ineffective on fire. CALL FOR MEDICAL AID. **Exposure** LIQUID POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. Irritating to skin and eyes. 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 OF MIK. DO NOT INDUCE VOMITING Effect of low concentrations on aquatic life is unknown. Water Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. **Pollution** Notify operators of nearby water intakes

1.	CORREC	T۱۷	Έ	RESPONSE ACTIONS	

Collection Systems: Skim

Chemical and Physical Treatment:

Clean shore line

2. CHEMICAL DESIGNATIONS

- CG Compatibility Group: Not listed. Formula: Not applicable IMO/UN Designation: Not listed DOT ID No.: Not listed CAS Registry No.: Currently not available NAERG Guide No.: Not listed
- Standard Industrial Trade Classification: 29220

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves and any other protective clothing to prevent contact with skin.
- 3.2 Symptoms Following Exposure: Contact of liquid with eyes causes severe irritation. May induce severe skin irritation, inflammation, swelling, and pustule formation. Absorption through the skin may cause purging. Ingestion causes burning of the mouth and stomach and drastic purging,
- possibly leading to collapse and death. Small doses have a strong laxative effect.

 3.3 Treatment of Exposure: EYES: flush with water; a 2.5% hydroxycortisone ointment is recommended. SKIN: remove as much liquid as possible from skin by use of a good solvent such as acetone or alcohol; wash with soap and water. INGESTION: for gastrointestinal symptoms, use demulcents; further treatment is symptomatic; do NOT induce vomiting.
- 3.5 TLV-STEL: Not listed.
- 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 4; LD₅₀ <50 mg/kg3.8 Toxicity by Inhalation: Currently not available.
- 3.9 Chronic Toxicity: Has been used in cancer research as a promoter for other compounds that cause skin cancer.
- 3.10 Vapor (Gas) Irritant Characteristics: Currently not available
- 3.11 Liquid or Solid Characteristics: Currently not available
- 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: Currently not available
- 4.2 Flammable Limits in Air: Not pertinent
- 4.3 Fire Extinguishing Agents: Dry chemical, foam, 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: Currently not
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: 4 mm/min.
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: Not pertinent.
- 4.12 Flame Temperature: Currently not
- 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: Currently not available
- 6.2 Waterfowl Toxicity: Currently not
- 6.3 Biological Oxygen Demand (BOD): Currently not available
- 6.4 Food Chain Concentration Potential:
- **GESAMP Hazard Profile:** Bioaccumulation: -

Damage to living resources: -Human Oral hazard: (3)

8. HAZARD CLASSIFICATIONS

8.1 49 CFR Category: Not listed

7.1 Grades of Purity: Technical

7.2 Storage Temperature: Ambient

7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: Currently not available

7.3 Inert Atmosphere: No requirement

7.6 Ship Type: Currently not available

7.7 Barge Hull Type: Currently not available

- 8.2 49 CFR Class: Not pertinent
- 8.3 49 CFR Package Group: Not listed.
- 8.4 Marine Pollutant: No
- 8.5 NFPA Hazard Classification: Not listed

7. SHIPPING INFORMATION

- 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: Not pertinent (very
- **9.4 Freezing Point:** 0 to 18°F = -18 to -8°C = 255 to 265°K
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: (est.) 0.946 at 15°C (liquid)
- 9.8 Liquid Surface Tension: (est.) 25 dynes/cm = 0.025 N/m at 20°C
- 9.9 Liquid Water Interfacial Tension: (est.) 50 dynes/cm = 0.050 N/m at 20°C
- 9.10 Vapor (Gas) Specific Gravity: Not pertinent
- 9.11 Ratio of Specific Heats of Vapor (Gas):
- 9.12 Latent Heat of Vaporization: Not pertinent
- **9.13 Heat of Combustion:** (est.) -16,000 Btu/lb = -9,300 cal/g = -390 X 10^5 J/kg
- 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 available

NOTES

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	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	
34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	59.870 59.810 59.760 59.700 59.650 59.590 59.590 59.540 59.430 59.430 59.310 59.260 59.150 59.390 59.150 59.090 59.150 59.090 58.650 58.820 58.700 58.650 58.700 58.650 58.540 58.480	34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 70 72 74 78 80 82 84	0.480 0.480	35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120	1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158 1.158		NOT PERT-NENT	

9.24 SOLUBILITY IN WATER		9. SATURATED VA	25 POR PRESSURE	9. SATURATED V	26 APOR 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
	I N S O		N O T		N O T		N O T
	L U B L E		PERTIN		PERTINENT		PERTINENT