GASOLINES: STRAIGHT RUN

CAUTIONARY RESPONSE INFORMATION Common Synonyms Floats on water. Flammable, irritating vapor is produced Avoid contact with liquid and vapor. Shut off ignition sources and call fire department. Stay upwind and use water spray to ``knock down" vapor. Notify local health and pollution control agencies. FLAMMABLE Fire Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Exposure Irritating to eyes, nose and throat. If inhaled, will cause dizziness, headache, difficult breathing or loss of consciousness. Irritating to skin and eyes. If swallowed, will cause nausea or vomiting HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. Water Fouling to shoreline. May be dangerous if it enters water intakes. **Pollution**

1. CORRECTIVE RESPONSE ACTIONS

Collection Systems: Skim Chemical and Physical Treatment: Burn Salvage waterfowl

2. CHEMICAL DESIGNATIONS

CG Compatibility Group: 33;
Miscellaneous Hydrocarbon Mixtures
Fornula: Not pertinent
IMO/UN Designation: 3.1, 3.2/1203
DOT ID No.: 1203

CAS Registry No.: Currently not available NAERG Guide No.: 128
Standard Industrial Trade Classification: 33411

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Protective goggles, gloves
- 3.1 Personal Protective Equipment: Protective goggles, gloves.
 3.2 Symptoms Following Exposure: INHALATION causes irritation of upper respiratory tract; central nervous system stimulation followed by depression of varying degrees ranging from dizziness, headache, and incoordination to anesthesia, coma, and respiratory arrest; irregular heartheat is dangerous complication. ASPIRATION causes severe lung irritation with coughing, gagging, dyspnea, substernal distress, and rapidly developing pulmonary edema; later, signs of bronchopneuronia and pneumonitis, acute onset of central nervous system excitement followed by depression. INGESTION causes irritation of mucous membranes of throat, esophagus, and stomach; stimulation followed by depression of central nervous system; irregular heartbeat.
- 3.3 Treatment of Exposure: Seek medical attention. INHALATION: maintain respiration; give oxygen if needed. ASPIRATION: enforce bed rest; administer oxygen. INGESTION: do NOT induce vomtiting; lavage carefully if appreciable quantity was ingested; guard against aspiration into lungs. EYES: wash with copious quantity of water. SKIN: wipe off and wash with soap and water.
- 3.4 TLV-TWA: 300 ppm
- 3.5 TLV-STEL: Not listed
- 3.6 TLV-Ceiling: 500 ppm
- 3.7 Toxicity by Ingestion: Grade 2: LDso = 0.5 to 5 g/kg
- 3.8 Toxicity by Inhalation: Currently not available.
- 3.9 Chronic Toxicity: None
- 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.
- 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.
- 3.12 Odor Threshold: 0.25 ppm
- 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:**(a) <0°F C.C. (b) 0-73°F C.C.
- 4.2 Flammable Limits in Air: (a) 1.3%-7.1%
- 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: None
- 4.6 Behavior in Fire: Vapor is heavier than air and may travel a considerable distance to a source of ignition and flash
- **4.7 Auto Ignition Temperature:** Currently not available
- 4.8 Electrical Hazards: Class I, group D
- 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:**90 ppm/24 hr/juvenile American shad/TL_m/fresh water 91 ppm/24 hr/juvenile American shad/TL_m/salt water
- 6.2 Waterfowl Toxicity: Currently not
- 6.3 Biological Oxygen Demand (BOD): 8%,
- 6.4 Food Chain Concentration Potential:
- 6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: Composition varies with range of distillation temperatures used.
- 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement
- 7.4 Venting: Open (flame arrester) or pressure-
- 7.5 IMO Pollution Category: Currently not available
- 7.6 Ship Type: Currently not available
- 7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

- 8.1 49 CFR Category: Flammable liquid
- 8.2 49 CFR Class: 3
- 8.3 49 CFR Package Group: II
- 8.4 Marine Pollutant: Yes 8.5 NFPA Hazard Classification:
 - Category Classification Health Hazard (Blue)......... 1

Flammability (Red)..... Instability (Yellow).....

- 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:** 58-275°F = 14-135°C = 287-408°K
- 9.4 Freezing Point: Not pertinent
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 0.71-0.747 at 15°C (liquid)
- 9.8 Liquid Surface Tension: 19-23 dynes/cm = 0.019-0.023 N/m at 20°C
- 9.9 Liquid Water Interfacial Tension: 49-51 dvnes/cm = 0.049-0.051 N/m at 20°C
- 9.10 Vapor (Gas) Specific Gravity: 3.4
- 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
- 9.12 Latent Heat of Vaporization: 130–150 Btu/lb = 71–81 cal/g = 3.0–3.4 X 10⁵ J/kg 9.13 Heat of Combustion: -18,720 Btu/lb =
- -10,400 cal/g = -435.4 X 105 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



GASOLINES: STRAIGHT RUN

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
35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 155 160	45.040 44.880 44.730 44.470 44.410 44.260 44.100 43.950 43.790 43.630 43.43.80 43.320 43.160 42.850 42.700 42.540 42.380 42.230 42.1760 41.450 41.450 41.140	10 15 20 25 30 35 40 45 50 60 70 75 80 85 90 95 100 105	0.459 0.462 0.464 0.467 0.470 0.472 0.475 0.478 0.480 0.483 0.486 0.488 0.491 0.493 0.496 0.499 0.501 0.507 0.509	40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190	0.909 0.900 0.891 0.883 0.874 0.865 0.856 0.847 0.838 0.829 0.821 0.812 0.801 0.794 0.795 0.776	35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 155 160	0.519 0.501 0.485 0.469 0.454 0.440 0.426 0.414 0.401 0.390 0.379 0.368 0.358 0.348 0.339 0.330 0.322 0.314 0.306 0.299 0.291 0.285 0.272 0.266 0.260

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
	I N S O L U B L E		CURRENTLY NOT AVAILABLE		NOT PERTINENT		CURRENTLY NOT AVA-LABLE