

GASOLINES: STRAIGHT RUN

GSR

| CAUTIONARY RESPONSE INFORMATION | | | |
|---|--|-----------|---------------|
| Common Synonyms | Watery liquid | Colorless | Gasoline odor |
| Floats on water. Flammable, irritating vapor is produced. | | | |
| Evacuate. Keep people away. 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. Protect water intakes. | | | |
| Fire | FLAMMABLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. | | |
| Exposure | VAPOR Irritating to eyes, nose and throat. If inhaled, will cause dizziness, headache, difficult breathing or loss of consciousness. LIQUID Irritating to skin and eyes. If swallowed, will cause nausea or vomiting. | | |
| Water Pollution | HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. Fouling to shoreline. May be dangerous if it enters water intakes. | | |

| 1. CORRECTIVE RESPONSE ACTIONS | 2. CHEMICAL DESIGNATIONS | 4. FIRE HAZARDS | 7. SHIPPING INFORMATION | | | | | | | | |
|---|--|--|---|----------------|----------------------|---|--------------------|---|----------------------|---|--|
| Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn Salvage waterfowl | 2.1 CG Compatibility Group: 33; Miscellaneous Hydrocarbon Mixtures 2.2 Formula: Not pertinent 2.3 IMO/UN Designation: 3.1, 3.2/1203 2.4 DOT ID No.: 1203 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: 128 2.7 Standard Industrial Trade Classification: 33411 | 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 back. 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 Stoichiometric Air to Fuel Ratio: Not pertinent 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 | 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-vacuum 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available | | | | | | | | |
| 3. HEALTH HAZARDS | 5. CHEMICAL REACTIVITY | 8. HAZARD CLASSIFICATIONS | 9. PHYSICAL & CHEMICAL PROPERTIES | | | | | | | | |
| 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 heartbeat is dangerous complication. ASPIRATION causes severe lung irritation with coughing, gagging, dyspnea, substernal distress, and rapidly developing pulmonary edema; later, signs of bronchopneumonia 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 vomiting; 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. | 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 | 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: <table border="0"> <tr> <th>Category</th> <th>Classification</th> </tr> <tr> <td>Health Hazard (Blue)</td> <td>1</td> </tr> <tr> <td>Flammability (Red)</td> <td>3</td> </tr> <tr> <td>Instability (Yellow)</td> <td>0</td> </tr> </table> | Category | Classification | Health Hazard (Blue) | 1 | Flammability (Red) | 3 | Instability (Yellow) | 0 | 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 dynes/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 10 ⁵ J/kg 9.13 Heat of Combustion: -18,720 Btu/lb = -10,400 cal/g = -435.4 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 |
| Category | Classification | | | | | | | | | | |
| Health Hazard (Blue) | 1 | | | | | | | | | | |
| Flammability (Red) | 3 | | | | | | | | | | |
| Instability (Yellow) | 0 | | | | | | | | | | |
| | | | 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 |
| 35 | 45.040 | 10 | 0.459 | 40 | 0.909 | 35 | 0.519 |
| 40 | 44.880 | 15 | 0.462 | 50 | 0.900 | 40 | 0.501 |
| 45 | 44.730 | 20 | 0.464 | 60 | 0.891 | 45 | 0.485 |
| 50 | 44.570 | 25 | 0.467 | 70 | 0.883 | 50 | 0.469 |
| 55 | 44.410 | 30 | 0.470 | 80 | 0.874 | 55 | 0.454 |
| 60 | 44.260 | 35 | 0.472 | 90 | 0.865 | 60 | 0.440 |
| 65 | 44.100 | 40 | 0.475 | 100 | 0.856 | 65 | 0.426 |
| 70 | 43.950 | 45 | 0.478 | 110 | 0.847 | 70 | 0.414 |
| 75 | 43.790 | 50 | 0.480 | 120 | 0.838 | 75 | 0.401 |
| 80 | 43.630 | 55 | 0.483 | 130 | 0.829 | 80 | 0.390 |
| 85 | 43.480 | 60 | 0.486 | 140 | 0.821 | 85 | 0.379 |
| 90 | 43.320 | 65 | 0.488 | 150 | 0.812 | 90 | 0.368 |
| 95 | 43.160 | 70 | 0.491 | 160 | 0.803 | 95 | 0.358 |
| 100 | 43.010 | 75 | 0.493 | 170 | 0.794 | 100 | 0.348 |
| 105 | 42.850 | 80 | 0.496 | 180 | 0.785 | 105 | 0.339 |
| 110 | 42.700 | 85 | 0.499 | 190 | 0.776 | 110 | 0.330 |
| 115 | 42.540 | 90 | 0.501 | | | 115 | 0.322 |
| 120 | 42.380 | 95 | 0.504 | | | 120 | 0.314 |
| 125 | 42.230 | 100 | 0.507 | | | 125 | 0.306 |
| 130 | 42.070 | 105 | 0.509 | | | 130 | 0.299 |
| 135 | 41.920 | | | | | 135 | 0.291 |
| 140 | 41.760 | | | | | 140 | 0.285 |
| 145 | 41.600 | | | | | 145 | 0.278 |
| 150 | 41.450 | | | | | 150 | 0.272 |
| 155 | 41.290 | | | | | 155 | 0.266 |
| 160 | 41.140 | | | | | 160 | 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 | | C U R R E N T L Y | | N O T P E R T I N E T | | C U R R E N T L Y N O T A V A I L A B L E |