## **GASOLINES: CASINGHEAD**

4. FIRE HAZARDS

4.1 Flash Point: <0°F O.C.

7. SHIPPING INFORMATION

7.1 Grades of Purity: Composition depends on location of oil well

	CAUTION	IARY RESPO		TION		
Common Synonyms Natural gasoline		Watery liquid	Colorless	Gasoline odor		
		Floats on water. Flammable, irritating vapor is produced.				
Evacuate. Keep peop Wear chen Shut off igr Stay upwin Notify local Protect wa	le away. nical protective ition sources a d and use wate health and po ter intakes.	suit with self-contai and call fire departme er spray to ``knock d lution control agenci	ned breathing apparatus. ent. owm" vapor. es.			
Fire	FLAMMABLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. Extinguish with dry chemical, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.					
Exposure	CALL FOR MEDICAL AID. VAPOR Irritating to eyes, nose and throat. If inhaled will cause dizziness, headache, difficult breathing or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Irritating to skin and eyes. If swallowed, will cause nausea or vomiting. Flush affected areas with plenty of water. IF NN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. DO NOT INDUCE VOMITING					
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.					
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn Salvage waterfowl			2. CHEMICAL DESIGNATIONS     2.1 CG Compatibility Group: 33;     Miscelaneous Hydrocarbon Mixtures     2.2 Formula: Not pertinent     3.1 IMO/UN Designation: 3.1/1/257     2.4 DOT ID No.: 1257     2.5 CAS Registry No.: Currently not available     2.6 NAERG Guide No.: 128     2.7 Standard Industrial Trade Classification:			
<ol> <li>3. HEALTH HAZARDS</li> <li>3.1 Personal Protective Equipment: Protective goggles, gloves.</li> <li>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 bronchoneumonia 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 excitement followed by depression. INGESTION causes irritation of mucous membranes of throat, esophagus, and stomach; stimulation followed by depression of central nervous system excitement followed by depression context entervous system excitement followed by depression context straines; irregular heartbeat.</li> <li>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 vorting; 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.</li> <li>4.4 TIV-KTMA: 200 prom</li> </ol>						
3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: 500 ppm 3.7 Toxicity by Ingestion: Grade 2; LD <sub>50</sub> = 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: Minumum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.
- 3.12 Odor Threshold: 0.25 ppm 3.13 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

401 0.0.					
4.2 Flammable Limits in Air: 1.3%-7.1%	7.2 Storage Temperature: Ambient				
4.3 Fire Extinguishing Agents: Dry	7.3 Inert Atmosphere: No requirement				
chemical, foam, or carbon dioxide	7.4 Venting: Open (flame arrester) or pressure-				
4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective	vacuum				
4.5 Special Hazards of Combustion	7.5 IMO Pollution Category: Currently not available				
Products: None	7.6 Ship Type: Currently not available				
4.6 Behavior in Fire: Vapor is heavier than air and may travel a considerable	7.7 Barge Hull Type: Currently not available				
distance to a source of ignition and flash back.	8. HAZARD CLASSIFICATIONS				
4.7 Auto Ignition Temperature: Currently not	8.1 49 CFR Category: Flammable liquid				
available	8.2 49 CFR Class: 3				
4.8 Electrical Hazards: Class I, group D	8.3 49 CFR Package Group: II				
4.9 Burning Rate: 4 mm/min.	8.4 Marine Pollutant: No				
4.10 Adiabatic Flame Temperature: Currently not available	8.5 NFPA Hazard Classification:				
4.11 Stoichometric Air to Fuel Ratio: Not	Category Classification Health Hazard (Blue) 1				
4 12 Eleme Temperature: Currently pet	Flammability (Red) 3				
available	Instability (Yellow)0				
4.13 Combustion Molar Ratio (Reactant to	8.6 EPA Reportable Quantity: Not listed.				
Product): Not pertinent	8.7 EPA Pollution Category: Not listed.				
4.14 Minimum Oxygen Concentration for	8.8 RCRA Waste Number: Not listed				
combustion (MOCC). Not instea	8.9 EPA FWPCA List: Not listed				
5 CHEMICAL REACTIVITY					
	9. PHYSICAL & CHEMICAL				
5.1 Reactivity with Water: No reaction	9. PHYSICAL & CHEMICAL PROPERTIES				
5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction	9. PHYSICAL & CHEMICAL PROPERTIES				
5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Stable	9. PHYSICAL & CHEMICAL PROPERTIES     9.1 Physical State at 15° C and 1 atm: Liquid     9.2 Molecular Weight: Not pertinent				
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	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: 58-276°E =				
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<ol> <li>Standard Values - No reaction</li> <li>Reactivity with Common Materials: No reaction</li> <li>Stability During Transport: Stable</li> <li>Stability During Transport: Stable</li> <li>Neutralizing Agents for Acids and Caustics: Not pertinent</li> <li>Polymerization: Not pertinent</li> <li>Inhibitor of Polymerization: Not pertinent</li> </ol>	<ol> <li>9. PHYSICAL &amp; CHEMICAL PROPERTIES</li> <li>9.1 Physical State at 15° C and 1 atm: Liquid</li> <li>9.2 Molecular Weight: Not pertinent</li> <li>9.3 Boiling Point at 1 atm: 58-275°F = 14-135°C = 287-408°K</li> <li>9.4 Freezing Point: Not pertinent</li> <li>9.5 Critical Temperature: Not pertinent</li> </ol>				
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5.1 Reactivity with Vater: 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 pom/24 hr/iuvenile American	<ol> <li>9. PHYSICAL &amp; CHEMICAL PROPERTIES</li> <li>9.1 Physical State at 15° C and 1 atm: Liquid</li> <li>9.2 Molecular Weight: Not pertinent</li> <li>9.3 Boiling Point at 1 atm: 58–275°F = 14–135°C = 287-408°K</li> <li>9.4 Freezing Point: Not pertinent</li> <li>9.5 Critical Temperature: Not pertinent</li> <li>9.6 Critical Pressure: Not pertinent</li> <li>9.7 Specific Gravity: 0.671 at 15°C (liquid)</li> <li>9.8 Liquid Surface Tension: 19-23 dynes/cm = 0.019–0.023 Wm at 20°C</li> </ol>				
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- 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: CASINGHEAD**

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 55 60 65 70 75 80 80 80 90 95 100 105 110 115 120 125 130 135 140 145 155 160	42.790 42.630 42.480 42.320 42.170 42.010 41.850 41.700 41.540 41.390 41.230 41.230 41.230 40.920 40.760 40.610 40.450 40.290 40.760 40.450 40.290 40.140 39.980 39.830 39.650 39.650 39.200 39.200 39.200 39.200 39.200	10 15 20 25 30 35 40 45 55 60 65 70 75 80 85 90 95 90 90 90 95	0.478 0.481 0.484 0.487 0.492 0.495 0.498 0.500 0.503 0.506 0.509 0.511 0.514 0.514 0.520 0.523 0.528 0.528 0.531	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 0.856 0.856 0.847 0.838 0.829 0.821 0.821 0.812 0.812 0.812 0.794 0.785 0.776	35 40 45 50 55 60 65 70 70 80 80 80 90 90 90 100 100 110 110 115 120 125 130 135 140 145 155 160	0.519 0.501 0.485 0.469 0.454 0.414 0.426 0.414 0.390 0.379 0.368 0.358 0.358 0.358 0.330 0.322 0.322 0.314 0.306 0.299 0.291 0.285 0.278 0.278 0.276 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 A V A I L A B L E		N O T E R T I N E N T		CJRRENTLY NOT AVA-LABLE