CHARCOAL

 SHIPPING INFORMATION
 Grades of Purity: Various grades; those containing appreciable volatile material are more likely to catch fire. All shipments must be exposed to air and so certified.

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 available7.7 Barge Hull Type: Currently not available

8.1 49 CFR Category: Spontaneously

8.5 NFPA Hazard Classification: Not listed 8.6 EPA Reportable Quantity: Not listed.

9. PHYSICAL & CHEMICAL PROPERTIES
9.1 Physical State at 15° C and 1 atm: Solid

8.7 EPA Pollution Category: Not listed.
8.8 RCRA Waste Number: Not listed

8.3 49 CFR Package Group: III 8.4 Marine Pollutant: No

8.9 EPA FWPCA List: Not listed

9.4 Freezing Point: Not pertinent 9.5 Critical Temperature: Not pertinent

9.6 Critical Pressure: Not pertinent9.7 Specific Gravity: 2 at 20°C (solid)

9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not

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: 14,100 Btu/lb = 7,830 cal/g = 328 X 10⁵ J/kg

9.14 Heat of Decomposition: Not pertinent9.15 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

9.2 Molecular Weight: 129.3 Boiling Point at 1 atm: Very high

pertinent

NOTES

Combustible 8.2 49 CFR Class: 4.2

8. HAZARD CLASSIFICATIONS

ap people away. iv off ignition sources. Call fire department. iv off ignition sources. Call fire department. ut off ignition sources. Call fire department. iv opwind. back carbon monoxide. use water spray to `knock down' dust. 4.6 Behavior in Fire: Not per term to xic carbon monoxide. ity local health and pollution control agencies. 4.7 Auto Ignition Temperature. Combustible. POLOSONUG SASES MAY BE PRODUCED IN FIRE. Flood discharge area with water. 4.8 Electrical Hazards: Clas JIre DUST Irritating to eyes, nose and throat. Move victim to fresh air. Move victim to fresh air. 1f in eyes, hold eyelids open and flush with plenty of water. SOLID Not harmful. Notify local health and wildlife officials. 5. CHEMICAL REA Notify local health and wildlife officials. 5. CHEMICAL REA
Condustance: POISONOUS GASES MAY BE PRODUCED IN FIRE. POISONOUS GASES MAY BE PRODUCED IN FIRE. 4.9 Burning Rate: Not pertii Flood discharge area with water. 10 Adiabatic Flame Temp Temp Temp Temp Temp Temp Temp Te
JIPE DUS1 4.11 Stoichometric Air to Fi (calc.) Initiating to eyes, nose and throat. Move victim to fresh air. 4.13 Commetric Air to Fi (calc.) Move victim to fresh air. If in eyes, hold eyelids open and flush with plenty of water. 4.12 Flame Temperature: C available SOLID Not harmful. 4.13 Combustion Molar Rat Product): 1.0 (calc.) r Effect of low concentrations on aquatic life is unknown. 4.14 Minimum Oxygen Concombustion (MOCC): Notify local health and wildlife officials. 5. CHEMICAL REA
r Effect of low concentrations on aquatic life is unknown. Combustion (MOCC): May be dangerous if it enters water intakes.
Italin 2.3 IMO/UN Designation: 4.2/1361,1362 Cadadust Not permitting 2.4 DOT ID No.: 1361,1362 5.5 Polymerization: Not permitting 2.5 CAS Registry No.: 7440-04-0 2.6 NAERG Guide No.: 133 2.6 NAERG Guide No.: 133 7.7 Standard Industrial Trade Classification: 24500 3. HEALTH HAZARDS 6. WATER POLL al Protective Equipment: Respirator for dust 6.1 Aquatic Toxicity: None ms Following Exposure: No significant symptoms 6.3 Biological Oxygen Dem ent of Exposure: No treatment required 6.4 Food Chain Concentrat VA: Not listed. 5.5 GESAMP Hazard Profile Bioaccumulation: 0 6.5 GESAMP Hazard Profile
hreshold: Odorless alue: Not listed. PEL-TWA: Not listed. PEL-STEL: Not listed. EGL: Not listed

CHARCOAL

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
	N O T		N O T		N O T		N O T
	- PERT-NENT		- PERTINENT		- P E R T - N E N T		- PERT-NENT

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
	N S O -		N O T		N O T		NOT
	U U B L E		P E R T I N E N T		P E R T I N E N T		P E R T I N E N T