ARSENIC DISULFIDE

CAUTIONARY RESPONSE INFORMATION Common Synonyms Realgar Red arsenic glass Red arsenic sulfide Red orpiment Ruby arsenic Sinks in water AVOID CONTACT WITH SOLID AND DUST. Keep people away Wear chemical protective suit with self-contained breathing apparatus Isolate and remove discharged material. Notify local health and pollution control agencies. Not flammable. Wear chemical protective suit with self-contained breathing apparatus. Fire CALL FOR MEDICAL AID. Exposure Harmful to skin. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. POISONOUS IF SWALLOWED. Will burn eyes and skin. Remove contaminated clothing and shoes. 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. or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CON-HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. Water May be dangerous if it enters water inta Notify local health and wildlife officials. Notify operators of nearby water intakes **Pollution**

1. CORRECTIVE	RESPONSE ACTIONS
Stop discha	arne

Collection Systems: Dredge

2. CHEMICAL DESIGNATIONS

- 2.1 CG Compatibility Group: Not listed 2.2 Formula: As₂S₂

- IMO/UN Designation: 6.1/1557 DOT ID No.: 1557 CAS Registry No.: 1303-32-8 NAERG Guide No.: 152
- Standard Industrial Trade Classification:

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Approved respirator; goggles; rubber gloves; clean protective
- 3.1 Personal Protective Equipment. Approved respirator, goggeto, race, general section of thing.

 3.2 Symptoms Following Exposure: (Acute and sub-acute poisoning are not common.) Repeated inhalation causes irritation of nose, laryngitis, mild bronchitis. Ingestion causes weakness, loss of appetite, gastrointestinal disturbances, peripheral neuritis, occasional hepatitis. Contact with eyes causes irritation. Irritates skin, especially where moist; if not treated, may cause ulceration.
- 3.3 Treatment of Exposure: Consult physician after all overexposure to this compound. INHALATION: move to fresh air. INGESTION: induce vorniting by giving warm salt water; repeat until vomit is clear. EYES: flush with water for at least 15 min. SKIN: wash well with water.
- 3.4 TLV-TWA: 0.01 mg/m3 (as arsenic)
- 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: Possible skin and lung cancer.
 3.10 Vapor (Gas) Irritant Characteristics: Currently not available
- 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Odorless
- 3.13 IDLH Value: 5 mg/m3 as arsenic.
- 3.14 OSHA PEL-TWA: 0.01 mg/m3 as arsenic.
- 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: Not flammable
- 4.2 Flammable Limits in Air: Not pertinent
- 4.3 Fire Extinguishing Agents: Water
- 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent
- 4.5 Special Hazards of Combustion Products: Poisonous fumes of the compound may be formed in fires. If ignited, will form sulfur dioxide gas.
- 4.6 Behavior in Fire: May ignite at very high
- 4.7 Auto Ignition Temperature: Not pertinent
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: Not pertinent
- 4.10 Adiabatic Flame Temperature: Not pertinent
- 4.11 Stoichometric Air to Fuel Ratio: Not
- 4.12 Flame Temperature: Not pertinent
- 4.13 Combustion Molar Ratio (Reactant to Product): Currently not available
- 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: Currently not available
- 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: Currently not available
- 6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: 99+%; Technical
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: No requirement
- 7.4 Venting: Open
- 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: Poison
- 8.2 49 CFR Class: 6.1
- 8.3 49 CFR Package Group: II
- 8.4 Marine Pollutant: No
- 8.5 NFPA Hazard Classification: Not listed
- 8.6 EPA Reportable Quantity: 1
- 8.7 EPA Pollution Category: X 8.8 RCRA Waste Number: Not listed
- 8.9 EPA FWPCA List: Yes

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Solid
- 9.2 Molecular Weight: 214
- 9.3 Boiling Point at 1 atm: 1,049°F = 565°C = 838°K
- 9.4 Freezing Point: 585°F = 307°C = 580°K
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 3.5 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: Not pertinent
- 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

ARSENIC DISULFIDE

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
	PERTINENT		PERT INENT		. PERT - NENT		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		N O T
	L U B L E		P E R T I N E N T		P E R T I N E N T		P ERTINENT