

ARSENIC PENTAOXIDE

APO

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Amorphous solid	White	Odorless
<p>Arsenic acid anhydride Arsenic oxide Arsenic pentoxide</p> <p>Sinks and mixes with water.</p> <p>AVOID CONTACT WITH SOLID. Keep people away. Wear goggles, self-contained breathing apparatus and rubber overclothing (including gloves). Stop discharge if possible. Isolate and remove discharged material. Notify local health and pollution control agencies. Protect water intakes.</p>			
Fire	Not flammable.		
Exposure	<p>CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED OR IF SKIN IS EXPOSED. Move to fresh air. If breathing is difficult, give oxygen.</p> <p>SOLID POISONOUS IF SWALLOWED. 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 CONVULSIONS, do nothing except keep victim warm.</p>		
Water Pollution	<p>HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>		

1. CORRECTIVE RESPONSE ACTIONS		2. CHEMICAL DESIGNATIONS
Stop discharge Collection Systems: Dredge		2.1 CG Compatibility Group: Not listed
3.1 Personal Protective Equipment: Dust respirator, gloves, goggles or face shield, protective clothing.	3.2 Symptoms Following Exposure: INHALATION: May cause acute pulmonary edema, with restlessness, dyspnea and coughing attacks. Chronic symptoms may include: numbness, burning, and tingling or itching followed by fasciculation or gross tremors with muscular atrophy and paralysis of lower limbs. EYES: Irritation of conjunctiva, edema of eyelids and corneal necrosis. SKIN: Pigmentation, inflammation, desquamative eczematoid dermatitis and hyperkeratosis. INGESTION: Irritation of stomach and intestines with nausea, vomiting and diarrhea. In severe cases vomitus and stools are bloody. Patient can go into collapse and shock with weak rapid pulse, cold sweats, coma and death. Chronic digestive disturbances. Liver damage with resulting jaundice. Disturbances of blood, kidneys and nervous system.	2.2 Formula: As_5O_5 2.3 IMO/UN Designation: 6.1/1559 2.4 DOT ID No.: 1559 2.5 CAS Registry No.: 1303-28-2 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification: 52329
3.3 Treatment of Exposure: Call a physician. INHALATION: Remove from exposure. EYES: Flush with plenty of water. SKIN: Wash thoroughly with plenty of water. INGESTION: Remove ingested arsenic by gastric lavage, emesis and catharsis.	3.4 TLV-TWA: 0.01 mg/m ³ as As. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed.	3.7 Toxicity by Ingestion: Grade 4; LD ₅₀ below 50 mg/kg. 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Exposure can be followed by tumor development. Cancers of the skin, lungs and ethmoids have been attributed to As exposure. 3.10 Vapor (Gas) Irritancy Characteristics: Not pertinent 3.11 Liquid or Solid Characteristics: Minimum hazard. Can cause burning sensation and tenderness in affected areas of the skin. 3.12 Odor Threshold: Odorless. 3.13 IDLH Value: 5 mg/m ³ as arsenic. 3.14 OSHA PEL-TWA: 0.01 mg/m ³ 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		7. SHIPPING INFORMATION
4.1 Flash Point:	Not flammable	7.1 Grades of Purity: 56% As
4.2 Flammable Limits in Air:	Not flammable	7.2 Storage Temperature: Currently not available
4.3 Fire Extinguishing Agents:	Water	7.3 Inert Atmosphere: Currently not available
4.4 Fire Extinguishing Agents Not to Be Used:	Not pertinent	7.4 Venting: Currently not available
4.5 Special Hazards of Combustion Products:	Toxic arsenic fumes may be produced	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire:	Not pertinent	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature:	Not pertinent	7.7 Barge Hull Type: Currently not available
8. HAZARD CLASSIFICATIONS		8. HAZARD CLASSIFICATIONS
8.1 49 CFR Category:	Poison	8.1 49 CFR Category: Poison
8.2 49 CFR Class:	6.1	8.2 49 CFR Class: 6.1
8.3 49 CFR Package Group:	II	8.3 49 CFR Package Group: II
8.4 Marine Pollutant:	No	8.4 Marine Pollutant: No
8.5 NFPA Hazard Classification:		8.5 NFPA Hazard Classification:
		Category Classification
		Health Hazard (Blue)..... 3
		Flammability (Red)..... 0
		Instability (Yellow)..... 0
8.6 EPA Reportable Quantities:	1	
8.7 EPA Pollution Category:	X	
8.8 RCRA Waste Number:	P011	
8.9 EPA FWCRA List:	Yes	
9. PHYSICAL & CHEMICAL PROPERTIES		9. PHYSICAL & CHEMICAL PROPERTIES
9.1 Physical State at 15° C and 1 atm:	Solid	9.1 Physical State at 15° C and 1 atm: Solid
9.2 Molecular Weight:	229.82	9.2 Molecular Weight: 229.82
9.3 Boiling Point at 1 atm:	Not pertinent (decomposes upon melting)	9.3 Boiling Point at 1 atm: Not pertinent
9.4 Freezing Point:	599°F = 315°C = 588.2°K	9.4 Freezing Point: 599°F = 315°C = 588.2°K
9.5 Critical Temperature:	Not pertinent	9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure:	Not pertinent	9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity:	4.32 at 25°C	9.7 Specific Gravity: 4.32 at 25°C
9.8 Liquid Surface Tension:	Not pertinent	9.8 Liquid Surface Tension: Not pertinent
9.9 Liquid Water Interfacial Tension:	Not pertinent	9.9 Liquid Water Interfacial Tension: Not pertinent
9.10 Vapor (Gas) Specific Gravity:	Not pertinent	9.10 Vapor (Gas) Specific Gravity: Not pertinent
9.11 Ratio of Specific Heats of Vapor (Gas):	Not pertinent	9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
9.12 Latent Heat of Vaporization:	Not pertinent	9.12 Latent Heat of Vaporization: Not pertinent
9.13 Heat of Combustion:	Not pertinent	9.13 Heat of Combustion: Not pertinent
9.14 Heat of Decomposition:	Not pertinent	9.14 Heat of Decomposition: Not pertinent
9.15 Heat of Solution:	Currently not available	9.15 Heat of Solution: Currently not available
9.16 Heat of Polymerization:	Not pertinent	9.16 Heat of Polymerization: Not pertinent
9.17 Heat of Fusion:	Currently not available	9.17 Heat of Fusion: Currently not available
9.18 Limiting Value:	Currently not available	9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure:	Currently not available	9.19 Reid Vapor Pressure: Currently not available

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
NOT PERTINENT			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

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
60	15000.000		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT