

PHENYLDICHLOROARSINE

PDL

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Phenylarsenic dichloride	Liquid Sinks in water.	Colorless to yellow	Weak unpleasant odor	<p>4.1 Flash Point: Currently not available</p> <p>4.2 Flammable Limits in Air: Currently not available</p> <p>4.3 Fire Extinguishing Agents: Water</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent</p> <p>4.5 Special Hazards of Combustion Products: Highly toxic arsenic fumes are formed when hot.</p> <p>4.6 Behavior in Fire: Currently not available</p> <p>4.7 Auto Ignition Temperature: Currently not available</p> <p>4.8 Electrical Hazards: Currently not available</p> <p>4.9 Burning Rate: 1.8 mm/min.</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: 35.7 (calc.)</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): 10.0 (calc.)</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: Commercial</p> <p>7.2 Storage Temperature: Ambient</p> <p>7.3 Inert Atmosphere: No requirement</p> <p>7.4 Venting: Pressure-vacuum</p> <p>7.5 IMO Pollution Category: Currently not available</p> <p>7.6 Ship Type: Currently not available</p> <p>7.7 Barge Hull Type: Currently not available</p>
KEEP PEOPLE AWAY. AVOID CONTACT WITH LIQUID. Wear rubber overclothing (including gloves). Notify local health and pollution control agencies. Protect water intakes.				8. HAZARD CLASSIFICATIONS	
Fire Fire data not available. POISONOUS GASES ARE PRODUCED WHEN HEATED.				<p>8.1 49 CFR Category: Not listed.</p> <p>8.2 49 CFR Class: Not pertinent.</p> <p>8.3 49 CFR Package Group: Not listed.</p> <p>8.4 Marine Pollutant: No</p> <p>8.5 NFPA Hazard Classification: Not listed</p> <p>8.6 EPA Reportable Quantity: Not listed.</p> <p>8.7 EPA Pollution Category: Not listed.</p> <p>8.8 RCRA Waste Number: Not listed</p> <p>8.9 EPA FWPCA List: Not listed</p>	
Exposure CALL FOR MEDICAL AID. LIQUID POISONOUS IF SWALLOWED. Will burn skin and eyes. 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. DO NOT INDUCE VOMITING.				9. PHYSICAL & CHEMICAL PROPERTIES	
Water Pollution Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				<p>9.1 Physical State at 15° C and 1 atm: Liquid</p> <p>9.2 Molecular Weight: 222.9</p> <p>9.3 Boiling Point at 1 atm: 495°F = 257°C = 530°K</p> <p>9.4 Freezing Point: 3.9°F = -15.6°C = 257.6°K</p> <p>9.5 Critical Temperature: Not pertinent</p> <p>9.6 Critical Pressure: Not pertinent</p> <p>9.7 Specific Gravity: 1.657 at 20°C (liquid)</p> <p>9.8 Liquid Surface Tension: 44.64 dynes/cm = 0.04464 N/m at 18°C</p> <p>9.9 Liquid Water Interfacial Tension: Not pertinent</p> <p>9.10 Vapor (Gas) Specific Gravity: Not pertinent</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent</p> <p>9.12 Latent Heat of Vaporization: 99 Btu/lb = 55 cal/g = 2.3 X 10³ J/kg</p> <p>9.13 Heat of Combustion: (est.) -6,450 Btu/lb = -3,600 cal/g = -150 X 10³ J/kg</p> <p>9.14 Heat of Decomposition: Not pertinent</p> <p>9.15 Heat of Solution: Not pertinent</p> <p>9.16 Heat of Polymerization: Not pertinent</p> <p>9.17 Heat of Fusion: Currently not available</p> <p>9.18 Limiting Value: Currently not available</p> <p>9.19 Reid Vapor Pressure: Currently not available</p>	
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump Chemical and Physical Treatment: Neutralize Do not burn				5. CHEMICAL REACTIVITY	
2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: C ₆ H ₅ AsCl ₂ 2.3 IMO/UN Designation: 6.1/1556 2.4 DOT ID No.: Not listed. 2.5 CAS Registry No.: 696-28-6 2.6 NAERG Guide No.: 152 2.7 Standard Industrial Trade Classification: 51550				<p>5.1 Reactivity with Water: Very slow reaction, considered non-hazardous. Hydrochloric acid is formed.</p> <p>5.2 Reactivity with Common Materials: Corrodes metals because of acid formed.</p> <p>5.3 Stability During Transport: Stable</p> <p>5.4 Neutralizing Agents for Acids and Caustics: Not pertinent</p> <p>5.5 Polymerization: Not pertinent</p> <p>5.6 Inhibitor of Polymerization: Not pertinent</p>	
3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Full protective clothing; gas mask or self-contained breathing apparatus 3.2 Symptoms Following Exposure: Inhalation causes irritation of respiratory system, pulmonary edema, and systemic effects. Vapor irritates eyes. Liquid causes severe burns of eyes and severe irritation or burns of skin. Ingestion causes severe irritation or burns of mouth and stomach. 3.3 Treatment of Exposure: Get medical attention at once following all exposures to this compound. INHALATION: remove victim from exposure; give artificial respiration if breathing has ceased. EYES: immediately wash with copious amounts of water for at least 15 min. SKIN: flush with water and wash well with soap and water; compound can be absorbed through skin and cause toxic systemic effects. INGESTION: give large amounts of water. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 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				6. WATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed	
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
34	104.200	52	0.400	52	1.048		N
36	104.099	54	0.400	54	1.048		O
38	104.000	56	0.400	56	1.048		T
40	104.000	58	0.400	58	1.048		
42	103.900	60	0.400	60	1.048		
44	103.799	62	0.400	62	1.048		P
46	103.799	64	0.400	64	1.048		E
48	103.700	66	0.400	66	1.048		R
50	103.599	68	0.400	68	1.048		T
52	103.599	70	0.400	70	1.048		I
54	103.500	72	0.400	72	1.048		N
56	103.400	74	0.400	74	1.048		E
58	103.299	76	0.400	76	1.048		N
60	103.299	78	0.400	78	1.048		O
62	103.200	80	0.400	80	1.048		T
64	103.099	82	0.400	82	1.048		
66	103.099	84	0.400	84	1.048		
68	103.000	86	0.400	86	1.048		
70	102.900						
72	102.900						
74	102.799						
76	102.700						
78	102.599						
80	102.599						
82	102.500						
84	102.400						

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		60	0.001	60	0.00003		N
N		70	0.001	70	0.00005		O
S		80	0.002	80	0.00007		T
O		90	0.003	90	0.00010		
L		100	0.004	100	0.00015		
U		110	0.006	110	0.00020		P
B		120	0.008	120	0.00028		E
L		130	0.011	130	0.00038		N
E		140	0.015	140	0.00051		O
		150	0.020	150	0.00068		T
		160	0.027	160	0.00090		
		170	0.036	170	0.00117		
		180	0.047	180	0.00152		
		190	0.061	190	0.00195		
		200	0.079	200	0.00249		
		210	0.102	210	0.00315		