

SODIUM ARSENITE

SAR

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Solid	White to gray	Odorless
<p>Sodium meta arsenite Sodium ortho arsenite</p> <p>Mixes with water.</p> <p>KEEP PEOPLE AWAY. AVOID CONTACT WITH SOLID AND DUST. Wear goggles and dust respirator. Stay upwind. Use water spray to "knock down" dust. Notify local health and pollution control agencies. Protect water intakes.</p>			
Fire	Not flammable. POISONOUS GASES MAY BE PRODUCED WHEN HEATED.		
Exposure	<p>CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED. Irritating to eyes, nose and throat. Move victim to fresh air. If in eyes, hold eyelids open and flush with plenty of water. If breathing is difficult, give oxygen.</p> <p>SOLID POISONOUS IF SWALLOWED. Irritating to 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 and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.</p>		
Water Pollution	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.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Dilute and disperse Stop discharge	<p>2.1 CG Compatibility Group: Not listed.</p> <p>2.2 Formula: Na₃AsO₃·NaAsO₂</p> <p>2.3 IMO/UN Designation: Solid: 6.1/2027; Aquatic soln.: 6.1/1686</p> <p>2.4 DOT ID No.: 1686 (aqueous), 2027 (solid)</p> <p>2.5 CAS Registry No.: 7784-46-5</p> <p>2.6 NAERG Guide No.: 154 (solution); 151 (solid)</p> <p>2.7 Standard Industrial Trade Classification: 52389</p>
3. HEALTH HAZARDS	
<p>3.1 Personal Protective Equipment: Dust mask; rubber gloves; goggles or face shield</p> <p>3.2 Symptoms Following Exposure: Dust may irritate eyes. Ingestion or excessive inhalation of dust causes irritation of stomach and intestines with nausea, vomiting, and diarrhea; bloody stools, shock, rapid pulse, coma.</p> <p>3.3 Treatment of Exposure: EYES: flush with water for at least 15 min. SKIN: wash with large amounts of water. INGESTION: immediately induce evacuation of intestinal tract by gastric lavage and saline cathartic; see physician immediately; consider possible development of arsenic poisoning.</p> <p>3.4 TLV-TWA: Not listed.</p> <p>3.5 TLV-STEL: Not listed.</p> <p>3.6 TLV-Ceiling: Not listed.</p> <p>3.7 Toxicity by Ingestion: Grade 4; oral LD₅₀ = 42 mg/kg (rat)</p> <p>3.8 Toxicity by Inhalation: Currently not available.</p> <p>3.9 Chronic Toxicity: May be carcinogenic. Arsenic poisoning may develop.</p> <p>3.10 Vapor (Gas) Irritant Characteristics: Currently not available</p> <p>3.11 Liquid or Solid Characteristics: Currently not available</p> <p>3.12 Odor Threshold: Odorless</p> <p>3.13IDLH Value: Not listed.</p> <p>3.14 OSHA PEL-TWA: Not listed.</p> <p>3.15 OSHA PEL-STEL: Not listed.</p> <p>3.16 OSHA PEL-Ceiling: Not listed.</p> <p>3.17 EPA AEGL: Not listed</p>	

4. FIRE HAZARDS	7. SHIPPING INFORMATION								
4.1 Flash Point: Not flammable	7.1 Grades of Purity: Pure; Technical (55-98%)								
4.2 Flammable Limits in Air: Not flammable	7.2 Storage Temperature: Ambient								
4.3 Fire Extinguishing Agents: Not pertinent	7.3 Inert Atmosphere: No requirement								
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Pressure-vacuum								
4.5 Special Hazards of Combustion: Toxic arsenic fumes may be formed in fires. Self-contained breathing apparatus should be used.	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								
4.8 Electrical Hazards: Not pertinent									
4.9 Burning Rate: Not pertinent									
4.10 Adiabatic Flame Temperature: Currently not available									
4.11 Stoichiometric Air to Fuel Ratio: Not pertinent									
4.12 Flame Temperature: Currently not available									
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent									
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed									
8. HAZARD CLASSIFICATIONS	9. PHYSICAL & CHEMICAL PROPERTIES								
8.1 49 CFR Category: Poison	9.1 Physical State at 15°C and 1 atm: Solid								
8.2 49 CFR Class: 6.1	9.2 Molecular Weight: Not pertinent								
8.3 49 CFR Package Group: II	9.3 Boiling Point at 1 atm: Not pertinent (decomposes)								
8.4 Marine Pollutant: Yes	9.4 Freezing Point: 1,139°F = 615°C = 886°K								
8.5 NFPA Hazard Classification:	9.5 Critical Temperature: Not pertinent								
<table border="0"> <tr> <td>Category</td> <td>Classification</td> </tr> <tr> <td>Health Hazard (Blue).....</td> <td>3</td> </tr> <tr> <td>Flammability (Red).....</td> <td>0</td> </tr> <tr> <td>Instability (Yellow).....</td> <td>0</td> </tr> </table>	Category	Classification	Health Hazard (Blue).....	3	Flammability (Red).....	0	Instability (Yellow).....	0	9.6 Critical Pressure: Not pertinent
Category	Classification								
Health Hazard (Blue).....	3								
Flammability (Red).....	0								
Instability (Yellow).....	0								
8.6 EPA Reportable Quantity: 1 pound	9.7 Specific Gravity: 1.87 at 20°C (solid)								
8.7 EPA Pollution Category: X	9.8 Liquid Surface Tension: Not pertinent								
8.8 RCRA Waste Number: Not listed	9.9 Liquid Water Interfacial Tension: Not pertinent								
8.9 EPA FWCNA List: Yes	<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: Not pertinent</p> <p>9.13 Heat of Combustion: Not pertinent</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>								

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
VERY SOLUBLE			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT