## **CADMIUM OXIDE**

CA	UTIONARY RESPO	NSE INFORMATION	4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Cadmium fume Sinks in water. KEEP PEOPLE AWAY. AVOID CONTACT W Wear a dust respirator. Notify local health and pollution control agenc Protect water infakes.			<ul> <li>4.1 Flash Point: Not flammable</li> <li>4.2 Flammable Limits in Air: Not flammable</li> <li>4.3 Fire Extinguishing Agents: Not pertinent</li> <li>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent</li> <li>4.5 Special Hazards of Combustion Products: Toxic cadmium oxide fume may form in fires.</li> </ul>	<ul> <li>7.1 Grades of Purity: Reagent; technical</li> <li>7.2 Storage Temperature: Ambient</li> <li>7.3 Inert Atmosphere: No requirement</li> <li>7.4 Venting: Open</li> <li>7.5 IMO Pollution Category: Currently not available</li> <li>7.6 Ship Type: Currently not available</li> <li>7.7 Barge Hull Type: Currently not available</li> </ul>		
Fire PC	ot flammable. OISONOUS GASES MAY BE PF	RODUCED IN FIRE.	<ul><li>4.6 Behavior in Fire: Currently not available</li><li>4.7 Auto Ignition Temperature: Not pertinent</li></ul>	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Keep Away From Food		
Exposure CA PC FC Fi Fi Fi Fi Fi Fi Fi Fi Fi Fi Fi Fi Fi	fear goggles and self-contained ALL FOR MEDICAL AID. UST DISONOUS IF INHALED. DISONOUS IF INHALED. DISONOUS if INHALED. The eathing has stopped, give ariti- breathing is difficult, give oxyger OLID Tritating to skin and eyes. swallowed will cause nausea an emove contarrinated clothing ar ush affected areas with plenty o IN EYES, hold eyelids open an SWALLOWED and victim is CC milk and have victim induce vor	breathing apparatus. lush with plenty of water. ficial respiration. n. vid vomiting. of shores. of water. d flush with plenty of water. NSCIOUS, have victim drink water miting. VCONSCIOUS OR HAVING CONVULSIONS,	<ul> <li>4.8 Electrical Hazards: Not pertinent</li> <li>4.9 Burning Rate: Currently not available</li> <li>4.10 Adiabatic Flame Temperature: Currently not available</li> <li>4.11 Stoichometric Air to Fuel Ratio: Not Pertinent</li> <li>4.12 Flame Temperature: Currently not available</li> <li>4.13 Combustion Molar Ratio (Reactant to Product): Not Pertinent</li> <li>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</li> <li>5. CHEMICAL REACTIVITY</li> <li>5.1 Reactivity with Water: No reaction</li> <li>5.2 Reactivity with Oxmon Materials: Currently not available</li> </ul>	<ul> <li>8.2 49 CFR Class: 6.1</li> <li>8.3 49 CFR Package Group: III</li> <li>8.4 Marine Pollutant: Yes</li> <li>8.5 NFPA Hazard Classification: Not listed</li> <li>8.6 EPA Reportable Quantity: Not listed.</li> <li>8.7 RFPA Hazard Classification: Not listed.</li> <li>8.8 RCRA Waste Number: Not listed</li> <li>8.9 EPA FWPCA List: Not listed</li> <li>9. PHYSICAL &amp; CHEMICAL PROPERTIES</li> <li>9.1 Physical State at 15° C and 1 atm: Solid</li> <li>9.2 Molecular Weight: 128.4</li> <li>9.3 Boiling Point at 1 atm: Not pertinent (decomposes)</li> <li>9.4 Freezing Point: Not pertinent</li> </ul>		
	ffect of low concentrations on ad ay be dangerous if it enters wat otify local health and wildlife offic otify operators of nearby water i	er intakes. cials.	<ul> <li>5.3 Stability During Transport: Stable</li> <li>5.4 Neutralizing Agents for Acids and Caustics: Not pertinent</li> <li>5.5 Polymerization: Not pertinent</li> <li>5.6 Inhibitor of Polymerization: Not pertinent</li> </ul>	<ol> <li>Critical Temperature: Not pertinent</li> <li>Critical Pressure: Not pertinent</li> <li>T Specific Gravity: 6.95 at 20°C (solid)</li> <li>Liquid Surface Tension: Not pertinent</li> <li>Liquid Water Interfacial Tension: Not</li> </ol>		
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Dredge       2. CHEMICAL DESIGNATIONS         2.1 CG Compatibility Group: Not listed.       2.2 Formula: CdO         2.3 IMO/UN Designation: Not listed       2.4 DOT ID No.: 2570         2.5 CAS Registry No.: 1306-19-0       2.6 NAERG Guide No.: 154         2.7 Standard Industrial Trade Classification: 52329			<ol> <li>6. WATER POLLUTION</li> <li>6.1 Aquatic Toxicity: Currently not available</li> <li>6.2 Waterfowl Toxicity: Currently not available</li> <li>6.3 Biological Oxygen Demand (BOD): None</li> <li>6.4 Food Chain Concentration Potential: Concentrated by shellish</li> <li>6.5 GESAMP Hazard Profile: Not listed</li> </ol>	pertinent 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 Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available		
<ol> <li>HEALTH HAZARDB</li> <li>Personal Protective Equipment: Bu. Mines approved respirator; goggles; rubber gloves</li> <li>Symptoms Following Exposure: A single exposure to cadmium oxide fumes can cause severe or fatal lung intration; chronic poisoning is characterized by lung injury (emphysema) and kidney distruction. Ingestion produces severe toxic effects; both kidney and liver injuries may occur. Contact with eyes causes initiation.</li> <li>Treatment of Exposure: INHALATON: if there has been known exposure to dense cadmium oxide fume or if cough, chest tightness, or respiratory distress occur after possible exposure, paleer paleer and call a physician. INGESTION: induce vomiting: stop irration by giving milk or egg whites at frequent intervals; perform gastic lavage; seek medical attention. EYES: flush with water for at least 15 min.</li> <li>Toxicity by Ingestion: Grade 3; oral rat LDs = 72 mg/kg</li> <li>Toxicity by Ingestion: Grade 3; oral rat LDs = 72 mg/kg</li> <li>Toxicity by Inflatation: Currently not available:</li> <li>Otoron: Toxicity: Delayed liver, lung, and kidney damage has followed respiratory exposures to cadmium saits in industry.</li> <li>Otoron: Goals) Irritator Characteristics: Currently not available:</li> <li>Otoron: Goals (Dritator Characteristics: Currently not available:</li> <li>Otoron: Goals (Dritator Koracteristics: Currently not available:</li> <li>Otoron: Pet-STEL: Not listed.</li> <li>Other Pet-STEL: Not listed.</li> <li>GostHA PEL-TWA: 0.005 mg/m<sup>2</sup> as Cd</li> <li>GostHA PEL-TWA: 0.005 mg/m<sup>2</sup> as Cd</li> <li>GostHA PEL-TSEL: Not listed.</li> <li>GostHA PEL-TSEL: Not listed.</li> <li>GostHA PEL-STEL: Not listed.</li> <li>GostHA PEL-STEL: Not listed.</li> <li>GostHA PEL-STEL: Not listed.</li> </ol>			N	9.19 Reid Vapor Pressure: Currently not available		

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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
	N O T		N O T		N O T		N O T
	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		P E R T I N E N T

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
	of water		N O T E R T I N E N T		N OT P E R T I N E N T		pound-F