## **ZINC CARBONATE**

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CAUTIONARY RESPONSE INFORMATION Common Synonyms Calarnine Smithsonite Sinks in water. Calarnine		4. FIRE HAZARDS     4.1 Flash Point:     Not flammable     4.2 Flammable Limits in Air: Not flammable     4.3 Fire Extinguishing Agents: Not pertinent     4.4 Fire Extinguishing Agents Not to Be     Used: Not pertinent	7. SHIPPING INFORMATION 7.1 Grades of Purity: 70% (as ZnO) 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: Currently not available 7.4 Venting: Currently not available 7.5 IMO Pollution Category: Currently not availabl		
Notify local health and pollution co	ntrol agencies.	4.5 Special Hazards of Combustion Products: Not pertinent	<ul><li>7.6 Ship Type: Currently not available</li><li>7.7 Barge Hull Type: Currently not available</li></ul>		
Fire Not flammable.  Exposure CALL FOR MEDICA SOLID If swallowed, may cr IF SWALLOWED ar	L AID. ruse nausea and vomiting. d victim is CONSCIOUS, have victim drinkwater or milk.	<ul> <li>4.6 Behavior in Fire: Could decompose to liberate CO<sub>2</sub></li> <li>4.7 Auto Ignition Temperature: Not fiammable</li> <li>4.8 Electrical Hazards: Currently not available</li> <li>4.9 Burning Rate: Not flammable</li> <li>4.10 Adiabatic Flame Temperature: Currently.</li> </ul>	8. HAZARD CLASSIFICATIONS     8.1 49 CFR Category: Not listed     8.2 49 CFR Class: Not pertinent     8.3 49 CFR Package Group: Not listed.     8.4 Marine Pollutant: No     8.5 NEPA Hazard Classification: Not listed		
Water         HARMFUL TO AQU/ May be dangerous if Notify local health an Notify operators of r	TIC LIFE IN VERY LOW CONCENTRATIONS. it enters water intakes. d wildlife officials. earby water intakes.	4.10 Autabate reinperature: Contently not available     4.11 Stoichometric Air to Fuel Ratio: Not pertinent.     4.12 Flame Temperature: Currently not available     4.13 Combustion Molar Ratio (Reactant to	8.6 EPA Reportable Quantity: 1000 pounds     8.7 EPA Pollution Category: C     8.8 RCRA Waste Number: Not listed     8.9 EPA FWPCA List: Yes		
1. CORRECTIVE RESPONSE ACTIO Stop discharge Collection Systems: Dredge 3.	DNS       2. CHEMICAL DESIGNATIONS         2.1 CG Compatibility Group: Not listed.         2.2 Formula: ZnCOa         2.3 IMO/UN Designation: Not listed         2.4 DOT 10 No: 9157         2.5 CAS Registry No.: 3486-35-9         2.6 NAERG Guide No.: 171         2.7 Standard Industrial Trade Classification: 52379	Product): Not perlinent.     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: No     reaction     5.3 Stability During Transport: Stable     5.4 Neutralizing Agents for Acids and     Caustics: Currently not available	<ul> <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: 125.4</li> <li>9.3 Boiling Point at 1 atm: Not pertinent</li> <li>9.4 Freezing Point: Loses CO<sub>2</sub> at 572°F = 300°C = 573.2°K</li> <li>9.5 Critical Temperature: Currently not available</li> <li>9.6 Critical Pressure: Currently not available</li> <li>9.7 Specific Gravity: 4.398 at room temperature</li> <li>9.8 Liquid Surface Tension: Not pertinent</li> </ul>		
<ol> <li>Symptoms rolowing Exposure: Inv discorrfort. Fever and sweating- vorniting.</li> <li>Treatment of Exposure: Call a physi gastric lavage. To relieve irritatio</li> <li>TU-YWA: Not listed.</li> <li>TU-YEL: Not listed.</li> <li>Tu-Yetik by Inhalation: Currently not a 8.8 Toxicity by Ingestion: Currently not a 3.9 Chronic Toxicity: Currently not availe</li> <li>10 Vapor (Gas) Irritant Characteristics: Cur 3.11 Liquid or Solid Characteristics: Cur 3.12 Odor Threshold: Odorless</li> <li>3.13 DLH Value: Not listed.</li> <li>3.14 OSHA PEL-TWA: Not listed.</li> <li>3.15 OSHA PEL-STEL: Not listed.</li> <li>3.16 OSHA PEL-STEL: Not listed.</li> <li>3.17 EPA AEGL: Not listed.</li> </ol>	SKIN: Astringent. INGESTION: May cause nausea and can. INGESTION: Diute with water or milk and remove by n administer demulcents. vailable available. ble : Currently not available rently not available	<ul> <li>5.6 Inhibitor of Polymerization: Not pertinent</li> <li>6. WATER POLLUTION</li> <li>6.1 Aquatic Toxicity: 96-hour TL- Bluegill sunfish =1.9 to 4.2 mg/l as Zn in soft water 96-hour TL- Bluegill sunfish =10.1 to 12.9 mg/l as Zn in hard water</li> <li>6.2 Waterfowl Toxicity: Currently not available</li> <li>6.3 Biological Oxygen Demand (BOD): 62.4 mg/l Zn will cause a 50% drop in the five day BOD.</li> <li>6.4 Food Chain Concentration Potential: Little accumulation</li> <li>6.5 GESAMP Hazard Profile: Not listed</li> </ul>	9:10 Vapor (Gas) Specific Gravity: Not pertinent 9:10 Vapor (Gas) 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: Currently not available 9:15 Heat of Solution: Currently not available 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		

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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
	- PERT-NENT		- PERT-NENT		- PERTINENT		- 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
	I N S O		N O T		N O T		N O T
	O L U E		P E R T I N E N T		P E R T I N E N T		9 E R T - N E N T