## **ZINC CHLORIDE**

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|---|---|--|--|--|--|--|--|
|   | CAUTION   | ARY RESPO  | ONSE INFORMATION   | 4. FIRE HAZARDS  | 7. SHIPPING INFORMATION  |  |  |
| Common Sync                               | Common Synonyms Solid   |  | White solid Odorless   | <ul> <li>4.1 Flash Point:<br/>Not flammable</li> <li>4.2 Flammable Limits in Air: Not flammable</li> </ul> | <ul> <li>7.1 Grades of Purity: Reagent; USP; technical;<br/>50% solution in water</li> <li>7.2 Storage Temperature: Ambient</li> </ul> |  |  |
|   |   | Solid sinks and mix                                | es with water.   | 4.3 Fire Extinguishing Agents: Not pertinent<br>4.4 Fire Extinguishing Agents Not to Be                    | 7.3 Inert Atmosphere: No requirement<br>7.4 Venting: Currently not available   |  |  |
| Keep peop<br>Avoid cont                   | ole away.<br>act with solid a   | ind solution.                                      |  | Used: Not pertinent<br>4.5 Special Hazards of Combustion   | 7.5 IMO Pollution Category: Currently not availabl   |  |  |
| Notify loca<br>Protect wa                 | I health and po<br>iter intakes.  | llution control agencie                            | es.  | Products: Not pertinent<br>4.6 Behavior in Fire: Not pertinent   | 7.6 Ship Type: Currently not available<br>7.7 Barge Hull Type: Currently not available   |  |  |
| Fire                                      | Not flammab   | ole.   |  | 4.7 Auto Ignition Temperature: Not flammable   | 8. HAZARD CLASSIFICATIONS  |  |  |
|   |   |  |  | 4.8 Electrical Hazards: Not pertinent<br>4.9 Burning Rate: Not flammable                                   | 8.1 49 CFR Category: Corrosive material  |  |  |
| Exposure                                  | CALL FOR I  | MEDICAL AID.                                       |  | 4.10 Adiabatic Flame Temperature: Currently  | 8.2 49 CFR Class: 8<br>8.3 49 CFR Package Group: III   |  |  |
|   | SOLID OR SOLUTION<br>Irritating to skin and eyes.<br>If swallowed, will cause nausea or vomiting.<br>Flush affected areas with plenty of water. |  |  | 4.11 Stoichometric Air to Fuel Ratio: Not  | 8.4 Marine Pollutant: No<br>8.5 NEPA Hazard Classification:  |  |  |
|   |   |  |  | 4.12 Flame Temperature: Currently not  | Category Classification  |  |  |
|   | IF SWALLO<br>or milk and h  | WED and victim is C<br>have victim induce vo       | onscious, have victim drink water<br>priting.  | 4.13 Combustion Molar Ratio (Reactant to<br>Product): Not participant                                      | Flammability (Red)   |  |  |
|   | IF SWALLO<br>do nothing e   | WED and victim is U<br>except keep victim wa       | INCONSCIOUS OR HAVING CONVULSIONS, arm.  | 4.14 Minimum Oxygen Concentration for  | Instability (Yellow)   |  |  |
| Water                                     | HARMFUL 1   | O AQUATIC LIFE IN                                  | VERY LOW CONCENTRATIONS.   |  | 8.7 EPA Pollution Category: C  |  |  |
| Pollution                                 | May be dangerous if it enters water intakes.           Pollution         Notify local health and wildlife officials.                            |  | iter intakes.<br>icials.<br>intakes  | 5. CHEMICAL REACTIVITY   | <ul><li>8.8 RCRA waste Number: Not listed</li><li>8.9 EPA FWPCA List: Yes</li></ul>  |  |  |
|   | Notity opera  | itors of nearby water                              | intakes.   | 5.1 Reactivity with Water: No reaction<br>5.2 Reactivity with Common Materials: No                         |  |  |  |
|   |   |  |  | reaction<br>5.3 Stability During Transport: Stable   | PROPERTIES   |  |  |
| 1. CORRECTIVE<br>Dilute and               | disperse  | ACTIONS  | 2. CHEMICAL DESIGNATIONS<br>2.1 CG Compatibility Group: Not listed                                     | 5.4 Neutralizing Agents for Acids and<br>Caustics: Not pertinent   | 9.1 Physical State at 15° C and 1 atm: Solid   |  |  |
| Stop disch<br>Chemical a                  | arge<br>and Physical Tr   | eatment:   | 2.2 Formula: ZnCl <sub>2</sub><br>2.3 IMO/UN Designation: 8.0/1840                                     | 5.5 Polymerization: Not pertinent<br>5.6 Inhibitor of Polymerization: Not pertinent                        | <ul><li>9.2 Molecular weight: 136.28</li><li>9.3 Boiling Point at 1 atm: Very high</li></ul>   |  |  |
| Absorb                                    |   |  | 2.4 DOT ID No.: 2331<br>2.5 CAS Registry No.: 7646-85-7  | 6 WATER DOLLUTION  | 9.4 Freezing Point: 541°F = 283°C = 556°K<br>9.5 Critical Temperature: Not pertinent   |  |  |
|   |   |  | 2.6 NAERG Guide No.: 154<br>2.7 Standard Industrial Trade Classification:                              | 6.1 Aquatic Toxicity:  | 9.6 Critical Pressure: Not pertinent   |  |  |
|   |   | 2 UEALTU   | 52329  | 7.2 ppm/96 hr/medium bluegill/TLm/fresh<br>water   | <ul><li>9.7 Specific Gravity: 2.91 at 25°C (solid)</li><li>9.8 Liquid Surface Tension: Not pertinent</li></ul>                         |  |  |
| 3.1 Personal Prote                        | ective Equipm   | J. NEALINH<br>Nent: Goggles or face                | e shield.  | 28 ppm/48 hr/zebrafish/TL <sub>m</sub> /salt water<br>6.2 Waterfowl Toxicity: Currently not                | 9.9 Liquid Water Interfacial Tension: Not<br>pertinent   |  |  |
| 3.2 Symptoms Fol<br>ingested, c           | llowing Expos<br>an cause intox   | ure: Solid or water so<br>tication, severe irritat | olution is astringent and can irritate the eyes. When tion of stomach, nausea, vomiting, and diarrhea. | available<br>6.3 Biological Oxygen Demand (BOD): None  | 9.10 Vapor (Gas) Specific Gravity: Not pertinent   |  |  |
| 3.3 Treatment of E<br>process; c          | Exposure: ING<br>all a doctor. E  | ESTION: give large<br>YES: wash with wate          | volumes of water and induce vomiting; repeat<br>er for at least 15 min.                                | 6.4 Food Chain Concentration Potential:  | 9.11 Ratio of Specific Heats of Vapor (Gas):<br>Not pertinent  |  |  |
| 3.4 TLV-TWA: 1 m<br>3.5 TLV-STEL: 2 n     | ıg/m³ (fume)<br>nq/m₃ (fume)  |  |  | 6.5 GESAMP Hazard Profile:<br>Bioaccumulation: 0   | <ul><li>9.12 Latent Heat of Vaporization: Not pertinent</li><li>9.13 Heat of Combustion: Not pertinent</li></ul>                       |  |  |
| 3.6 TLV-Ceiling: N<br>3.7 Toxicity by Inc | ot listed.  | 3: LD <sub>50</sub> = 50 to 500                    | ma/ka  | Damage to living resources: 3<br>Human Oral hazard: 2  | 9.14 Heat of Decomposition: Not pertinent  |  |  |
| 3.8 Toxicity by Inh                       | alation: Curre  | ntly not available.                                |  | Human Contact hazard: 0<br>Reduction of amenities: 0   | 9.16 Heat of Polymerization: Not pertinent   |  |  |
| 3.10 Vapor (Gas) In                       | ritant Charact  | eristics: Non-volatile                             | e  |  | 9.17 Heat of Fusion: 40.6 cal/g<br>9.18 Limiting Value: Currently not available  |  |  |
| 3.12 Odor Thresho                         | d Characteris   | ics: Solid Initates sk                             | an on proionged contact.   |  | 9.19 Reid Vapor Pressure: Currently not available  |  |  |
| 3.13 IDLH Value: 5<br>3.14 OSHA PEL-TV    | 0 mg/m <sup>3</sup> (fume)<br>NA: 1 mg/m <sup>3</sup> (fi   | ume)   |  |  | OTES   |  |  |
| 3.15 OSHA PEL-ST<br>3.16 OSHA PEL-Ce      | FEL: Not listed.<br>eiling: Not liste   | d.   |  |  | UTES .   |  |  |
| 3.17 EPA AEGL: N                          | ot listed   |  |  |  |  |  |  |
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## **ZINC CHLORIDE**

| 9.<br>SATURATED L          | 20<br>IQUID DENSITY                  | 9.21<br>LIQUID HEAT CAPACITY |   | 9.22<br>LIQUID THERMAL CONDUCTIVITY |   | 9.23<br>LIQUID VISCOSITY   |                   |
|----------------------------|--------------------------------------|------------------------------|---|-------------------------------------|---|----------------------------|-------------------|
| Temperature<br>(degrees F) | Pounds per cubic foot                | Temperature<br>(degrees F)   | British thermal unit per<br>pound-F       | Temperature<br>(degrees F)          | British thermal unit inch<br>per hour-square foot-F | Temperature<br>(degrees F) | Centipoise        |
|                            | N<br>O<br>T                          |                              | N<br>O<br>T                               |                                     | N O T   |                            | N<br>O<br>T       |
|                            | P<br>E<br>R<br>I<br>N<br>E<br>N<br>T |                              | P<br>E<br>R<br>T<br>I<br>N<br>E<br>N<br>T |                                     | P E R T I N E N T                                   |                            | P E R T I N E N T |

| 9.<br>SOLUBILIT   | 24<br>Y IN WATER  | 9.25<br>SATURATED VAPOR PRESSURE |  | 9.26<br>SATURATED VAPOR DENSITY |                       | 9.27<br>IDEAL GAS HEAT CAPACITY |   |
|---|---|----------------------------------|--|---------------------------------|-----------------------|---------------------------------|---|
| Temperature<br>(degrees F)  | Pounds per 100 pounds<br>of water   | Temperature<br>(degrees F)       | Pounds per square inch   | Temperature<br>(degrees F)      | Pounds per cubic foot | Temperature<br>(degrees F)      | British thermal unit per<br>pound-F   |
| (degrees F)<br>34<br>36<br>38<br>40<br>42<br>44<br>46<br>48<br>50<br>52<br>54<br>56<br>58<br>60<br>62<br>64<br>66<br>68<br>70<br>62<br>64<br>66<br>68<br>70<br>72<br>74<br>76<br>78<br>80<br>82<br>84 | Pounds per 100 pounds<br>of water<br>346.799<br>351.699<br>356.599<br>361.500<br>366.299<br>371.199<br>376.099<br>381.000<br>385.799<br>390.699<br>395.599<br>400.500<br>405.399<br>410.199<br>415.099<br>420.000<br>424.899<br>420.699<br>424.699<br>433.500<br>444.399<br>433.500<br>444.399<br>453.000<br>463.899<br>468.799 | (degrees F)                      | Pounds per square inch<br>N<br>O<br>T<br>P<br>E<br>R<br>T<br>I<br>N<br>E<br>N<br>T | (degrees F)                     | Pounds per cubic toot | (degrees F)                     | Briush inermai unit per<br>pound-F<br>N<br>O<br>T<br>P<br>E<br>R<br>T<br>I<br>N<br>E<br>N<br>T<br>T |
|   |   |                                  |  |                                 |                       |                                 |   |