



Safety Data Sheet

CM LIQUID ZINC 9%

SDS Number: 311

Revision: Jan 3, 2016

Section 1: IDENTIFICATION

Product Name: CM LIQUID ZINC 9%

Other Identification:

Chemical Family:

Liquid zinc sulfate and lignon solution

Recommended Use of Chemical:

Agricultural Industry – Fertilizer use

Manufacturer:

CUSTOM AG FORMULATORS, INC

3430 S. Willow Ave

Fresno, CA 93725

Information:

(559) 435-1052

Emergency Contact:

CUSTOM AG FORMULATORS, Inc. (800) 355-4457

CHEMTREC (800) 424-9300 Domestic

Section 2: HAZARD(S) IDENTIFICATION

Hazard Classification:

Acute Tox.

Category 4 (Oral)

Eye Dam.

Category 2

Hazardous to the aquatic environment, acute hazard

Category 3

Hazardous to the aquatic environment, long-term hazard

Category 3

Symbol(s):



Signal Word:

WARNING

Hazard Statement(s):

Harmful if swallowed, Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statements (GHS-US) : Wash Skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breath mist or vapor.

Wear eye protection protective gloves

If swallowed: Call a doctor if you feel unwell
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Collect spillage and store away from incompatible materials.
 Dispose of contents/container to an authorized waste collection point

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| Section 3: | COMPOSITION/INFORMATION on INGREDIENT |
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Chemical Ingredients: (See Section 8 for exposure guidelines)

| Chemical | Synonym Common | CAS No. | EINECS No. | % by Wt. |
|--|----------------|-----------|------------|----------------|
| Zinc sulfate | N/A | 7733-02-0 | N/A | Proprietary |
| Other components below reportable levels | N/A | | N/A | TOTALS TO 100% |

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| Section 4: | FIRST AID MEASURES |
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Symptoms/Effects:

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| Acute: | Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract. |
| Chronic: | No known chronic effects. |
| Eyes: | Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Get medical attention if irritation develops and persists. |
| Skin: | Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs. |
| Ingestion: | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Obtain medical attention if you feel unwell. |
| Inhalation: | Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention. |

Section 5: FIRE FIGHTING MEASURES

Flammable Properties: (See Section 9 for additional flammable properties)

Extinguishing Media:

Suitable Extinguishing Media: Not flammable, use media suitable for combustibles involved in fire.

Unsuitable Extinguishing Media: None known

Protection of Firefighters:

Specific Hazards Arising from the Chemical:

Physical Hazards: Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases.

Protective Equipment and Precautions for Firefighters:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment specified in Section 8. Isolate the hazard area and deny entry to unnecessary, untrained and unprotected personnel.

Environmental Precautions: Keep out of "waters of the United States" because of potential aquatic toxicity.

Methods of Containment:

Small Release: Confine and absorb small releases with sand, earth or other inert absorbents.

Large Release: Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into surface waterways (potential aquatic toxicity), storm drains.

Methods for Cleanup:**Small Release:**

Shovel up the absorbed material and place in drums for disposal as a chemical waste or recycle as a fertilizer as the original product was intended.

Large Release:

Recover as much of the spilled product as possible using portable pump and hoses. Use recovered material as originally intended or dispose of as a chemical waste. Treat remaining material as a small release (above).

Other Information:

Not applicable

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| Section 7: HANDLING and STORAGE |
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Handling:

Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin. Do not breathe mist or vapor.

Storage:

Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures.

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| Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION |
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Exposure Guidelines:

| Chemical | OSHA PELs | | ACGIH TLVs | |
|----------------|-----------|--------|------------|------|
| | TWA | STEL/C | TLV | STEL |
| Not applicable | | | | |

Engineering Controls:

Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled.

Personal Protective Equipment (PPE):

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| Eye/Face Protection: | Chemical goggles or a face shield is recommended. |
| Skin Protection: | Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse. |
| Respiratory Protection: | Chemical respirator with organic vapor cartridge if there is a risk of exposure exceeding the exposure limits. |
| Hygiene Considerations: | Use of good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking. |

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| Section 9: PHYSICAL and CHEMICAL PROPERTIES |
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| Appearance: | Dark brown liquid |
| Odor: | Lignin odor |
| Odor Threshold: | Not determined |
| pH: | 5.3-5.7 |
| Boiling Point: | >212°C |
| Flash Point: | Not applicable |
| Evaporation Rate: | Not applicable |
| Flammability: | Not applicable |
| Upper/Lower Flammability Limits: | Not applicable |
| Vapor Pressure: | Not determined |
| Vapor Density: | Not determined |
| Specific Gravity: | 10.9 lbs/gallon (typical) |
| Solubility (in water): | Complete |
| Partition Coefficient: | Not applicable |
| Auto-ignition Temperature: | Not applicable |
| Decomposition Temperature: | >500°C |
| Viscosity: | Data not available. |

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| Section 10: STABILITY and REACTIVITY |
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| Reactivity: | Avoid interaction with heat (flames), oxidizers or acids. |
| Chemical Stability: | This is a stable product under normal (ambient) temperature and pressure conditions. |
| Possibility of Hazardous Reactions: | None known |
| Conditions to Avoid: | No additional information. |
| Incompatible Materials: | This product is not compatible with lead or mercury or their alloys. These materials of construction should not be used in handling systems or storage containers for this product. |
| Hazardous Decomposition Products: | None Known. |

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| Section 11: TOXICOLOGICAL INFORMATION |
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**NUTRA BUILDER ESTIMATED AS PRODUCT
LD50**

ORAL: RAT 24226 mg/kg estimated

DERMAL: RAT 28406 mg/kg estimated

Acute Toxicity

: Harmful if swallowed

Dermal:

Slightly irritating

Inhalation:

Prolonged inhalation may be harmful. May cause damage to organs through prolonged repeated exposure.

Eyes:

Causes serious eye irritation

Chronic/Carcinogenicity:

Not listed in NTP, IARC, ACGIH, or by OSHA.

Teratology:

Not determined

Reproduction:

Not determined

Mutagenicity:

Not determined

Section 12: ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity:** Not determined.
- 12.2 Persistence & Degradability:** Not determined
- 12.3 Bioaccumulative Potential:** This product is not bioaccumulative.
- 12.4 Mobility in Soil:** Not determined
- 12.5 Other Adverse Effects:** Not determined

Section 13: DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal requirements.

Section 14: TRANSPORT INFORMATION
14.1 Basic Shipping Description:

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| 14.1.1 Proper Shipping Name: | Not <i>regulated by DOT</i> |
| 14.1.2 Hazard Classes: | Not applicable |
| 14.1.3 Identification Number: | Not applicable |
| 14.1.4 Packing Group: | Not applicable |
| 14.1.5 Hazardous Substance: | No |
| 14.1.6 Marine Pollutant: | No |

14.2 Additional Information:**14.2.1 Other DOT Requirements:**

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| 14.2.1.1 Reportable Quantity: | Not applicable |
| 14.2.1.2 Placard(s): | Not applicable |
| 14.2.1.3 Label(s): | Not applicable |

14.2.2 USCG Classification: Class 43, Misc. water solutions

14.2.3 International Transportation:

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| 14.2.3.1 IMO: | Non-hazardous under IMO regulations. |
| 14.2.3.2 IATA: | Non-hazardous under IATA regulations. |
| 14.2.3.3 TDG (Canada): | Non-hazardous under TDG regulations. |
| 14.2.3.4 ADR (Europe): | Non-hazardous under ADR regulations. |
| 14.2.3.5 ADG (Australia): | Non-hazardous under ADG regulations. |

14.2.4 Emergency Response Guide: Not applicable

14.2.5 ERAP – Canada: Not applicable

14.2.6 Special Precautions: None

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| Section 15: REGULATORY INFORMATION |
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15.1 U.S. Federal Regulations:

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| 15.1.1 OSHA: | This product meets the criteria of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| 15.1.2 TSCA: | Product is not contained in USEPA Toxic Substance Control Act Inventory. |
| 15.1.3 CERCLA: | Reportable Quantity – Not applicable |

15.1.4 SARA Title III:

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| 15.1.4.1 Extremely Hazardous Substance (EHS): | Not listed | |
| 15.1.4.2 Section 312 (Tier II) Ratings: | Immediate (acute) | Yes |
| | Fire | No |
| | Sudden Release | No |
| | Reactivity | No |
| | Delayed (chronic) | No |

15.1.4.3 Section 313 (FORM R): Not applicable

15.1.5 RCRA: Not applicable

15.1.6 CAA (Hazardous Air Pollutant/HAP): Not applicable

15.2 International Regulations:**15.2.1 Canada:**

15.2.1.1 WHMIS: Not hazardous

15.2.1.2 DSL/NDSL: Not Applicable.

15.3 State regulations:

15.3.1 CA Proposition 65: Not Applicable

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| Section 16: OTHER INFORMATION |
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REVISIONS: 5/10/2015

PREVIOUS REVISION: 4/1/2015

FURTHER INFORMATION:

The above information is based on data of which the manufacturer is aware and is believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.