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| SECTION 1. | PRODUCT AND COMPANY IDENTIFICATION |
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Chemical Product

FERTI-NEUTRAL ZINC 52

Common Name:

Zinc oxysulfate.

Chemical Description:

Zinc oxysulfate, powder, 52% zinc.

TSCA/CAS No.:

CAS No. 1314-13-2

Manufactured For:

Fertizona  
2850 S. Peart Road  
Casa Grande, AZ 85222

Emergency Phone Numbers

Emergency Telephone: DAYS:

(520) 836-7477

EPA National Response Center:

(800) 424-8802

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| SECTION 2. | HAZARDOUS INGREDIENTS |
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| <u>CHEMICAL</u> | <u>CAS NO.</u> | <u>%</u> | <u>TLV OR PEL</u> | <u>RO (lbs)</u> |
|-----------------|----------------|----------|-------------------|-----------------|
| Zinc Oxysulfate | 1314-13-2      | 90.0     | N.D.*             | N.A.*           |

\* N.A. - Not Available.  
N.D. - Not Determined.

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| SECTION 3. | EMERGENCY/HAZARDS OVERVIEW |
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Harmful if swallowed or inhaled. Avoid contact with eyes, skin and clothing. Avoid contamination of feed and foodstuffs. Contain any liquid runoff. Chalk-colored to pale tan powder. Reacts with acids. Sulfur dioxide at temperatures above 740°C. Not D.O.T. regulated.

HEALTH: 2      REACTIVITY: 1      FLAMMABILITY: 0      ENVIRONMENT: 1

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

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| SECTION 4. | FIRST AID |
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Eyes: Flush immediately with water for at least 15 minutes. Call a physician if eye irritation persists.  
Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.  
Ingestion: If conscious and alert, drink water or milk to dilute, then induce vomiting. Call a physician or Poison Control Center immediately.  
Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

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| SECTION 5. | FIRE AND EXPLOSION HAZARDS |
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| Flash Point:  | Not pertinent.   |
| Test Method:  | Not pertinent.   |
| LEL Flammable Limits:                                     | Not pertinent.   |
| UEL Flammable Limits:                                     | Not pertinent.   |
| Autoignition Temperature:                                 | Not pertinent.   |
| Flammability Classification:                              | Noncombustible.  |
| Known Hazardous Products of Combustion:                   | None.  |
| Properties that Initiate/Contribute to Intensity of Fire: | None.  |
| Potential For Dust Explosion:                             | None.  |
| Reactions that Release Flammable Gases or Vapors:         | Not known.   |
| Potential For Release of Flammable Vapors:                | None.  |
| Unusual Fire & Explosion Hazards:                         | Sulfur dioxide fumes at temperatures $\geq 740^{\circ}\text{C}$ .  |
| Extinguishing Media:                                      | Dry powder or $\text{CO}_2$ .  |
| Special Firefighting Procedures:                          | Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff. |

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| SECTION 6. | SPIILLS AND LEAKS |
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| Containment: | Prevent product spillage from entering drinking water supplies or streams. |
| Clean Up:    | Collect liquid or absorb onto absorbent material and package for disposal. |
| Evacuation:  | Not necessary.   |

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| SECTION 7. | STORAGE AND HANDLING |
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| Storage:                | Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above $40^{\circ}\text{F}$ . Do not store in contact with aluminum or copper. Do not store near food or feeds. Do not stack pallets more than two (2) high. |
| Transfer Equipment:     | Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.   |
| Work/Hygenic Practices: | Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling.  |

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| SECTION 8. | PERSONAL PROTECTIVE EQUIPMENT |
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| Eyes:        | Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.          |
| Skin:        | Impervious gloves and clothes.   |
| Respiratory: | Not normally needed. If use generates an aerosol mist or respiratory irritation, use approved dust/mist respirator (such as 3M Company #8710). |
| Ventilation: | Recommended but no TLV established.  |

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| SECTION 9. | PHYSICAL AND CHEMICAL DATA |
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|                                      |                                   |
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| Appearance:                          | Chalk-colored to pale tan powder. |
| Odor:                                | None.                             |
| pH:                                  | 6.7                               |
| Vapor Pressure:                      | Not pertinent.                    |
| Vapor Density (Air=1):               | Not pertinent.                    |
| Boiling Point:                       | Not pertinent.                    |
| Freezing Point:                      | Not pertinent.                    |
| Water Solubility:                    | Forms suspension.                 |
| Density:                             | 52.0 lbs./ft <sup>3</sup>         |
| Evaporation Rate:                    | Not pertinent.                    |
| Viscosity:                           | Not pertinent.                    |
| % Volatile:                          | Not pertinent.                    |
| Octanol/Water Partition Coefficient: | Not pertinent.                    |
| Saturated Vapor Concentration:       | Not pertinent.                    |

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| SECTION 10. | STABILITY AND REACTIVITY |
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| Stability:                        | Stable.                                     |
| Conditions To Avoid:              | None.                                       |
| Incompatibility:                  | Reacts with acids.                          |
| Hazardous Decomposition Products: | Sulfur dioxide at temperatures above 740°C. |
| Hazardous Polymerization:         | Will not occur.                             |

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| SECTION 11. | POTENTIAL HEALTH EFFECTS |
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| <u>Acute Effects:</u>      |   |
| Eyes:                      | Mild irritant. May cause redness and burning.   |
| Skin:                      | Mild irritant, especially from prolonged exposure. May cause redness.                             |
| Ingestion:                 | May cause stomach cramps and/or nausea.   |
| Inhalation:                | Moderate irritant of nasal mucous membranes. May cause dry coughing, wheezing or chest tightness. |
| <u>Subchronic Effects:</u> | None known.   |
| <u>Chronic Effects:</u>    | None known.   |

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| SECTION 12. | ECOLOGICAL INFORMATION |
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| Algal/Lemna Growth Inhibition:      | Not known. |
| Toxicity to Fish and Invertebrates: | Not known. |
| Toxicity to Plants:                 | Not known. |
| Toxicity in Birds:                  | Not known. |

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| SECTION 13. | DISPOSAL |
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Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

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| SECTION 14. | TRANSPORTATION |
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| D.O.T.:                     | Not D.O.T. Regulated.  |
| Other Shipping Description: | Fertilizing Compounds (Manufactured), Dry.<br>NMFC Item 68140 Sub 4, LTL Class 60) |

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| SECTION 15. | REGULATORY INFORMATION -- USA ONLY |
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| <u>CERCLA</u> :                                      | Zinc and its compounds are listed as priority pollutants under the Clean Water Act and, as such, fall under the CERCLA spill reporting requirements of 40 CFR 302. |
| <u>SARA TITLE III, Section 313 Toxic Chemicals</u> : | Zinc compounds (52%).  |
| <u>PROPOSITION 65 (CA)</u> :                         | None.  |

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| SECTION 16. | OTHER |
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All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.