



MATERIAL SAFETY DATA SHEET

32-Ca Liber

Issue Date: 10/12

Page 1 of 4

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

N-P-K Fertilizer

32-CaLiber

Common Name: N/A

Chemical Description: Mixture.

TSCA/CAS No.: None assigned

Manufactured By

Centennial Ag Supply

P. O. Box 557

Kersey, CO 80644

(800)-678-2567

Emergency Phone Numbers

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident, call INFOTRAC (24-Hour Emergency Number): (800) 535-5053

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

| <u>CHEMICAL</u> | <u>CAS NO.</u> | <u>%</u> | <u>TLV OR PEL</u> | <u>RQ (lbs)</u> |
|------------------|----------------|----------|-------------------|-----------------|
| Ammonium Nitrate | 6484-52-2 | 10-12 | - | N/A |

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear liquid ranging from water-white to blue tint with no odor to a slight ammonia odor. No immediate health hazard. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 1 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

- Eyes: Flush immediately with running water for at least 15 minutes. Seek medical attention if 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 administer water to dilute if possible. Do not induce vomiting unless directed by a professional. Call a Poison Control Center or physician immediately. Do not give anything by mouth to an unconscious person.
- Inhalation: Move to fresh air. If not breathing, give artificial respiration and get medical attention.

SECTION 5. FIRE AND EXPLOSION HAZARDS

- Flash Point: Nonflammable.
- Test Method: Not applicable.
- LEL Flammable Limits: Not applicable.
- UEL Flammable Limits: Not applicable.
- Autoignition Temperature: Not available.

Issue Date: 10/12

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| Flammability Classification: | Nonflammable. |
| Known Hazardous Products of Combustion: | Thermal decomposition products: oxides of nitrogen, ammonia, oxides of sulfur, and oxides of nitrogen. |
| Properties that Initiate/Contribute to Intensity of Fire: | None. |
| Potential for Dust Explosion: | None. |
| Reactions that Release Flammable Gases or Vapors: | Heating to dryness can cause release of ammonia gas. |
| Potential For Release of Flammable Vapors: | None. |
| Unusual Fire & Explosion Hazards: | None known. |
| Extinguishing Media: | Foam, dry chemical or water spray. |
| Special Firefighting Procedures: | Stay upwind of smoke. Wear positive pressure, breathing apparatus. Avoid smoke inhalation. Contain any liquid runoff. |

SECTION 6. SPILLS AND LEAKS

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| Containment: | Prevent product spillage from entering drinking water supplies, lakes, streams or other bodies of water. |
| Clean Up: | Collect recoverable liquid for application consistent with the label. Any remaining liquid may be directly packaged for disposal, or collected with absorbent material and packaged for disposal, or land applied consistent with label. |
| Evacuation: | Not necessary. |

SECTION 7. STORAGE AND HANDLING

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| Storage: | Store in a suitable container, in a cool, well-ventilated, dry place at temperatures between 32°F and 90°F. Do not store near food or feeds. |
| Transfer Equipment: | Transfer product using chemical-resistant tanks, pumps, valves, etc. Calcium Thiosulfate is incompatible with carbon steel, copper, or its alloys, and galvanized steel. |
| Work/Hygienic Practices: | Keep out of reach of children. Harmful if swallowed or inhaled. Avoid eye contact and prolonged or repeated contact with skin. Avoid breathing spray mist or vapors. May cause irritation to the eyes, respiratory system and digestive system. Work in well ventilated area. Wash thoroughly with soap and water after handling. |

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection should be used for dust/mist when present and ventilation is inadequate. A NIOSH/MSHA approved mask is recommended for most applications when respiratory protection is needed. When skin and eye contact may occur, wear long sleeved clothing, coveralls, chemical resistant gloves, and adequate eye protection.

Issue Date: 10/12

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| SECTION 9. | PHYSICAL AND CHEMICAL DATA |
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| Appearance: | Clear to translucent blue liquid. |
| Odor: | None to slight ammonia odor. |
| pH: | 6-8.5 |
| Vapor Pressure: | Not determined. |
| Vapor Density (Air=1): | Not determined. |
| Boiling Point: | Not determined. |
| Freezing Point: | Not determined. |
| Water Solubility: | Complete. |
| Density: | 10-11 pounds/gallon. |
| Evaporation Rate: | Not applicable. |
| Viscosity: | Not applicable. |
| % Volatile: | Not applicable. |
| Octanol/Water Partition Coefficient: | Not available. |
| Saturated Vapor Concentration: | Not available. |

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| SECTION 10. | STABILITY AND REACTIVITY |
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| Stability: | Stable. |
| Conditions To Avoid: | Freezing or excessive heat. Indiscriminant mixing with other chemicals may result in violent reaction. When mixing liquids with other chemicals, all chemical labels should be read in their entirety to ensure both chemical compatibility, and pH stability. Test in small quantities first. |
| Incompatibility: | Avoid uncontrolled contact with strong bases, strong alkaline substances, acids, metal salts, sodium hypochlorite and calcium hypochlorite. Steel containers and plumbing may be subject to considerable corrosion. |
| Hazardous Decomposition Products: | If heated to dryness, may generate flammable/toxic gases including ammonia, biuret, cyanide compounds, oxides of carbon and oxides of nitrogen. |
| Hazardous Polymerization: | Will not occur. |

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| SECTION 11. | POTENTIAL HEALTH EFFECTS |
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Acute Effects:

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| Eyes: | Slight irritant. May cause redness or burning. |
| Skin: | Slight irritant, especially from prolonged exposure. May cause redness. |
| Ingestion: | Mild irritant. May cause nausea, vomiting and diarrhea. |
| Inhalation: | Mild irritant. |

Subchronic Effects: Not known.

Chronic Effects: Not known.

Issue Date: 10/12

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. |

SECTION 13. DISPOSAL

Thoroughly rinse containers before disposal. 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. Product may be disposed of by land application at the given rates found on the label. 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.

SECTION 14. TRANSPORTATION

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| US Department of Transportation: | Not Regulated. |
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SECTION 15. REGULATORY INFORMATION

CERCLA: None

SARA TITLE III, Section 302, 304, 311, and 312 Toxic Chemicals: None.

SECTION 16. OTHER

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable; however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.

Created October 2012 by Tanner Hulse