

MATERIAL SAFETY DATA SHEET

LINE DRIVE

MSDS DATE: 10/14/09

SUPERSEDES: NONE

SECTION 4: FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If Swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: Not known
(% BY VOLUME) **LOWER:** Not known

FLASH POINT:

F: >200

C: >93

METHOD USED:

PMCC

AUTOIGNITION TEMPERATURE:

F: Not known

C: Not known

NFPA HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 0 **REACTIVITY:** 0 **OTHER:** - EXTINGUISHING

MEDIA: Use extinguishing media appropriate for other materials in the area **SPECIAL FIRE FIGHTING**

PROCEDURES: Ammonia gas may be released during a fire. Take appropriate measures.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May explode if mixed with oxidizers, such as potassium nitrate, potassium nitrite, and potassium chlorate.

HAZARDOUS DECOMPOSITION PRODUCTS: Substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Material should be collected with absorbent material and disposed in proper manner. Do not discharge to water or sewer. Wear suitable protective equipment.

SECTION 6 NOTES: None

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep out of reach of children. Store in cool dry place away from strong oxidizers, such as chlorates, nitrates and nitrites. Keep in original container tightly closed. Do not reuse empty container.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Normal ventilation should be adequate under normal conditions

RESPIRATORY PROTECTION: Where dusty or misty conditions require it, use a NIOSH approved dust or mist respirator for needed protection.

EYE PROTECTION: Wear chemical safety goggles. Do not wear contact lenses.

SKIN PROTECTION: Wear impervious gloves

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Appropriate clothing, eyewash and safety shower. Wash with soap and water before eating, drinking, smoking or using toilet facilities.

WORK HYGIENIC PRACTICES: None known

EXPOSURE GUIDELINES: See section 4

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless to slightly tinted, clear

ODOR: None to slight ammonia

PHYSICAL STATE: Liquid

pH AS SUPPLIED: Not known

pH (Other): 5.5 (0.1 M solution)

BOILING POINT:

F: Not known

C: Not known

MELTING POINT:

F: Not known

C: Not known

FREEZING POINT:

F: Not known

C: Not known

VAPOR PRESSURE (mmHg):

@

F: Not known

C: Not known

VAPOR DENSITY (AIR = 1):

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F: Not known

C: Not known

SPECIFIC GRAVITY (H₂O = 1): ~1.23

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F: 68

C: 20

SOLUBILITY IN WATER: Soluble

SECTION 9 NOTES: None

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable **Ⓡ** Unstable **⓪**

CONDITIONS TO AVOID (STABILITY): Stable

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers or base or alkali

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Mixing with strong bases or alkali may result in the release of ammonia

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not available

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not contaminate water, food or feed by storage or disposal. Dispose of in an approved waste disposal facility in accordance with all Federal, State and Local Regulations.

RCRA HAZARD CLASS: Not regulated

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Not regulated

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not regulated

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not regulated

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: No

313 REPORTABLE INGREDIENTS: 10% of ammonium content is reportable (see regulation)

STATE REGULATIONS: None

INTERNATIONAL REGULATIONS: None

SECTION 15 NOTES: None

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SUPERSEDES: NONE

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared on 10/14/09

DISCLAIMER:

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.

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