

Material Safety Data Sheet

16-4-8

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 16-4-8
PRODUCT CODES:

SYNONYMS:

MANUFACTURER: United Agricultural Services of America, Inc.
ADDRESS: 534 CR 529A, Lake Panasoffkee, FL 33538 USA

DIVISION:

EMERGENCY PHONE: 352-793-1682
FAX PHONE: 352-793-4864

CHEMTREC PHONE: 1-800-262-8200

CHEMICAL NAME:
CHEMICAL FORMULA:

CHEMICAL FAMILY:

GENERAL/GENERIC ID: Liquid Fertilizer

UPDATED BY: August 5, 2009

Section 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:			
OSHA PEL STEL:			
OSHA PEL CEILING:			
ACGIH TLV-TWA:			
ACGIH TLV STEL:			
ACGIH TLV CEILING:			

Section 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

Inhalation: No Skin: No Ingestion: Unlikely

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation or dermatitis in sensitive individuals.

INGESTION:

INHALATION:

CHRONIC AND ACUTE HEALTH HAZARDS: Eye contact may cause irritation. Prolonged contact with skin may cause irritation or dermatitis in sensitive individuals.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

CARCINOGENICITY: No

OSHA: No

NTP: No

IARC: No

OTHER:

Section 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Get medical attention if irritation persists.

SKIN: Flush with water for 15 minutes. Get medical attention if irritation persists.

INGESTION: Do not induce vomiting, contact a physician or poison control center immediately. Offer small amounts of water or milk.

INHALATION:

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SIGNS AND SYMPTOMS OF EXPOSURE: Eye irritation. Dry and/or red itchy skin.

Section 4 NOTES:

Material Safety Data Sheet

16-4-8

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% BY VOLUME): N/A UPPER: N/A LOWER: N/A
FLASH POINT: None F: C:

METHOD USED:
AUTOIGNITION TEMPERATURE: F: C:

NFPA HAZARD CLASSIFICATION
HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 OTHER:
Hazard Classification Key: 0- least, 1- slight, 2- moderate, 3- high, 4- extreme

EXTINGUISHING MEDIA: Water, water fog or foam.
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:
SPILL STEPS: Contain spill and recover product for use or disposal.

Section 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry area. Keep container closed when not in use. Keep Out Of Reach Of Children.
OTHER PRECAUTIONS:

Section 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING CONTROLS:
VENTILATION: Adequate ventilation required to maintain a fresh airflow.

RESPIRATORY PROTECTION: If mist or dust conditions should, be present use respirator approved by NIOSH.

EYE PROTECTION: Goggles or face shield.

SKIN (Hands, Arms, and Body) PROTECTION: Adequate clothing should be worn to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye bath, safety shower and oxygen mask.

WORK HYGIENIC PRACTICES: Wash all clothing before wearing. Wash all exposed skin surfaces with soap and water after using this product.

EXPOSURE GUIDELINES:

LOCAL EXHAUST: Adequate

Section 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Cocoa Brown

ODOR: Fish Odor

PHYSICAL STATE: Liquid

pH OF CONCENTRATE: 7.0

BOILING POINT: 212 F

MELTING POINT: F: C:

FREEZING POINT: F: C:

VAPOR PRESSURE (mmHg): N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.22- 1.23

EVAPORATION RATE: N/A

BASIS (=1):

Material Safety Data Sheet

16-4-8

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: Complete
PERCENT SOLIDS BY WEIGHT:
PERCENT VOLATILE:
BY WT/ BY VOL @ F: C:
VOLATILE ORGANIC COMPOUNDS (VOC):
WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT:
VISCOSITY:
@ F: C:

Section 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable.
CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Strong Acids or Alkali and strong Oxidizers.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide and Carbon Dioxide.
HAZARDOUS POLYMERIZATION: Will Not Occur.
CONDITIONS TO AVOID (POLYMERIZATION): None

Section 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: N/A
Section 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A
Section 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: If product can not be disposed of according to use directions on label. Dispose of in accordance with local, state, and federal regulations.
RCRA HAZARD CLASS:

Section 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Non Toxic, Non Hazardous Liquid Fertilizer
HAZARD CLASS: DOT SHIPPING CLASS: 70
ID NUMBER: PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS: PACKING GROUP:
ID NUMBER: LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS: PACKING GROUP:
ID NUMBER: LABEL STATEMENTS:

OTHER AGENCIES:
Section 14 NOTES:

Material Safety Data Sheet

16-4-8

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

Section 15 NOTES: Not Regulated.

SECTION 16: OTHER INFORMATION:

OTHER INFORMATION:

PREPARATION INFORMATION:

WARRANTY: Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and on the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the Vendee, the Vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, or furnishing of such information.

