



MATERIAL SAFETY DATA SHEET

Name of Product:

NACHURS Fortified Foliar™

Product #: F000246

Revision Date: Aug 3, 2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NACHURS Fortified Foliar™
SYNONYMS: 12-9-6+ micros
PRODUCT CODES: F000095, F000246

MANUFACTURER: NACHURS ALPINE SOLUTIONS®
DIVISION: Marion
ADDRESS: 421 Leader Street, Marion, OH 43302, United States

EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

CHEMICAL NAME: Nitrogen, Phosphorus, Potassium mixed fertilizer solution
CHEMICAL FAMILY: Inorganic
CHEMICAL FORMULA: Fertilizer Complex

PRODUCT USE:

PREPARED BY: NACHURS ALPINE SOLUTIONS®

SECTION₁ NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY: Inhalation, Ingestion, Injection, Absorption

POTENTIAL HEALTH EFFECTS

EYES:	May cause irritation
SKIN:	May cause irritation
INGESTION:	May cause irritation
INHALATION:	May cause irritation

ACUTE HEALTH HAZARDS: N/A

CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

CARCINOGENICITY:

OSHA:	N/A
ACGIH:	N/A
NTP:	N/A
IARC:	N/A
OTHER:	N/A

SECTION₂ NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

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CAS NO.:

% WT:

% VOL:

SARA 313 REPORTABLE: N/A

pmm:

mg/m3:

OSHA PEL-TWA: N/A

OSHA PEL STEL: N/A

OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A

ACGIH TLV STEL: N/A

ACGIH TLV CEILING: N/A

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with water immediately and thoroughly for 15 minutes. Seek medical attention.

SKIN: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.

INGESTION: If alert and conscious, immediately give large quantities of water and induce vomiting. Seek medical attention.

INHALATION: Under normal circumstances, is not an inhalation hazard unless misted and inhaled. Move person to fresh air, if not breathing administer artificial respiration. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT:

F°: N/A

C°: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE:

F°: N/A

C°: N/A

NFPA HAZARD CLASSIFICATION:

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
OTHER: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

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PROTECTION:

EXTINGUISHING MEDIA: Water or media suitable for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: May evolve ammonia when heated, suitable respiratory protection or SCBA

UNUSUAL FIRE AND EXPLOSION HAZARDS: Oxides of nitrogen or phosphorus may be evolved. Wear appropriate SCBA.

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia may be generated if exposed to excessive heat or strong alkaline materials. Oxides of nitrogen or phosphorus may be liberated upon excessive heat.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Since N-P-K is a fertilizer, product may promote eutrophication in waterways. In the case of a spill, contain the spill and maximize recovery. Store in mild steel or plastic containers.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in suitable containers made of mild steel, stainless steel, plastic or fiberglass.

OTHER PRECAUTIONS: N/A

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION: Provide adequate ventilation for local areas.

RESPIRATORY PROTECTION: Respiratory protection is not required under normal circumstances. If heated to evolve ammonia, use appropriate protection. If misted by heat, agitation, or spray, use a NIOSH approved respirator.

EYE PROTECTION: Chemical splash goggles and full-face shield.

SKIN PROTECTION: Rubber gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: N/A

EXPOSURE GUIDELINES: N/A

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear/translucent green liquid.

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ODOR: May have a slight ammonia odor.

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 6.8-7.8

pH (Other):

BOILING POINT:

F°: >200

C°: N/A

MELTING POINT:

F°: N/A

C°: N/A

FREEZING POINT:

F°: N/A

C°: N/A

VAPOR PRESSURE (mmHg) @

F°: N/A

C°: N/A

VAPOR DENSITY (AIR = 1) @

F°: N/A

C°: N/A

SPECIFIC GRAVITY (H₂O = 1) 1.22-1.23

DENSITY, LBS/GAL: 10.16-10.25

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

BY WT

BY VOL @F°: N/A

C°: N/A

VOLATILE ORGANIC COMPOUNDS (VOC): None

WITH WATER LBS/GAL:

WITHOUT WATER LBS/GAL:

MOLECULAR WEIGHT: N/A

VISCOSITY: N/A

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):	Extreme heat or fire.	
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong acidic or alkaline materials.	

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HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Ammonia may be generated if exposed to excessive heat or strong alkaline materials. Oxides of nitrogen or phosphorus may be liberated upon excessive heat.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: N/A

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not allow entry into drinking water.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal of N-P-K fertilizer may be subject to federal, state, and local regulations. Reclaim and reuse as much as possible. Users of this product should review their operations in terms of applicable regulations and then consult with the appropriate regulatory agents before discharging or disposing.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: NACHURS Fortified Foliar™

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

Health: 1

Flammability: 0

Reactivity: 0

Specific: None

WATER TRANSPORTATION:

PROPER SHIPPING NAME: NACHURS Fortified Foliar™

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT:

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Health: 1	Flammability: 0	Reactivity: 0	Specific: None
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AIR TRANSPORTATION

PROPER SHIPPING NAME:	NACHURS Fortified Foliar™
HAZARD CLASS:	N/A
ID NUMBER:	N/A
PACKING GROUP:	N/A

LABEL STATEMENTS:

Health: 1	Flammability: 0	Reactivity: 0	Specific: None
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OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): Yes

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: Technical Services

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