



MATERIAL SAFETY DATA SHEET

Name of Product:

NACHURS CornGrow®

Product #: F000108

Revision Date: Aug 3, 2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NACHURS CornGrow®
SYNONYMS: CornGrow; Liquid micronutrient solution
PRODUCT CODES: F 000076, F000108

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

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

CHEMICAL NAME: N/A
CHEMICAL FAMILY: N/A
CHEMICAL FORMULA: N/A

PRODUCT USE:

PREPARED BY: NACHURS ALPINE SOLUTIONS®

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Use with care!

ROUTES OF ENTRY: Ingestion, Injection, Inhalation, absorption

POTENTIAL HEALTH EFFECTS

- EYES: May cause slight eye irritation.
- SKIN: May cause slight skin irritation.
- INGESTION: May cause irritation.
- INHALATION: N/A

ACUTE HEALTH HAZARDS: Liquid contact may cause slight eye irritation. Repeated skin exposure may cause some skin irritation.

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

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Copper EDTA (as Cu) 0.4%

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	Manganese EDTA (as Mn)	0.6%
	Zinc EDTA (as Zn)	3.5%
CAS NO.:	Copper EDTA (as Cu)	39208-15-6
	Manganese EDTA (as Mn)	55448-20-9
	Zinc EDTA (as Zn)	14025-21-9

% 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 eye immediately and thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.

SKIN: Wash skin immediately and thoroughly with soap and water. If irritation persists, seek medical attention. Remove contaminated clothing and wash before reuse.

INGESTION: If conscious, immediately give large quantities of milk or water for dilution effect. Seek medical attention immediately.

INHALATION: Generally not considered an inhalation hazard unless mist is generated during usage.

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: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

NFPA HAZARD CLASSIFICATION:

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
OTHER: None

HMIS HAZARD CLASSIFICATION

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HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
PROTECTION:

EXTINGUISHING MEDIA: If involved in a fire, use water or media suitable for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure self contained breathing apparatus (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Prevent product from entering drinking water supplies or streams. In case of a spill, contain spill and maximize recovery by pumping into suitable container or use inert absorbent material.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in suitable containers made of mild steel, plastic, fiberglass, or stainless steel. General safety and industrial hygienic practices should always be followed. Avoid containers, piping, or fittings made of aluminum, copper-containing alloys, or galvanized metal.

OTHER PRECAUTIONS: N/A

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION: Ensure adequate ventilation for local area.

RESPIRATORY PROTECTION: Respirators are not required under normally ventilated conditions. If misted by heat, agitation or spray, use a NIOSH approved mist respirator. Do not use single-use type.

EYE PROTECTION: Safety glasses/goggles are recommended

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

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APPEARANCE: Light blue liquid

ODOR: Slight musty odor.

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 6.5-9.0
pH (Other):

BOILING POINT:
F°: >200°F
C°: >93.3°C

MELTING POINT: N/A

FREEZING POINT: Similar to water

VAPOR PRESSURE (mmHg) N/A

VAPOR DENSITY (AIR = 1) N/A

SPECIFIC GRAVITY (H₂O = 1) 1.165-1.185
DENSITY, LBS/GAL: 9.7-9.9

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT: 10%

PERCENT VOLATILE: N/A
BY WT
BY VOL @
F°:
C°:

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):	N/A	
INCOMPATIBILITY (MATERIAL TO AVOID):	Avoid contact with aluminum or copper alloys.	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	N/A	
HAZARDOUS POLYMERIZATION:	N/A	

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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 to enter water stream.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal of this product may be subject to federal, state and local regulations. Users of this product should review their operations in terms of applicable federal, state, and local laws and regulations, then consult with appropriate regulatory agent 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 CornGrow®

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT:

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

WATER TRANSPORTATION:

PROPER SHIPPING NAME: NACHURS CornGrow®

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENTS:

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

AIR TRANSPORTATION

PROPER SHIPPING NAME: NACHURS CornGrow®

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENTS:

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

OTHER AGENCIES:

SECTION 14 NOTES:

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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: Copper EDTA (as Cu)
Manganese EDTA (as Mn)
Zinc EDTA (as Zn)

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: *Technical Services*

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