



# MATERIAL SAFETY DATA SHEET

Name of Product:

**NACHURS MicroBolt B™**

Product #: F000107

Revision Date: Aug 3, 2012

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: NACHURS MicroBolt B™  
SYNONYMS: Boron 10%; Liquid micronutrient solution  
PRODUCT CODES: F000074, F000107, F000388

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

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

CHEMICAL NAME:  
CHEMICAL FAMILY: Micronutrient Solution- Boron (B)  
CHEMICAL FORMULA:

PRODUCT USE:

PREPARED BY: NACHURS ALPINE SOLUTIONS®

SECTION 1 NOTES:

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## SECTION 2: HAZARDS IDENTIFICATION

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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

SECTION 2 NOTES:

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENT:		<u>Approx %</u>	<u>TLV</u>
	Boric Acid Compound (CAS: 10043-35-3)	57.15%	none established
	Amines (CAS: 2038-03-1)	20.00%	none established

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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: Wash with plenty of soap and water. Remove contaminated clothing and wash before reuse.

INGESTION: Seek medical attention immediately. Call an emergency room, physician, or poison control.

INHALATION: Under normal circumstances, is not an inhalation hazard. If misted and inhaled, 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

PROTECTION:

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EXTINGUISHING MEDIA: Water or media suitable for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: Wear suitable respiratory protection or SCBA

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides may be released if dried product is burned.

SECTION 5 NOTES:

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Prevent product from entering drinking water supplies or streams. Contain material with dike and pump into container or use inert absorbent material. Place in proper container for disposal according to local, state and federal regulations.

SECTION 6 NOTES:

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## SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: Do not store in aluminum or copper containing metal containers.

OTHER PRECAUTIONS: N/A

SECTION 7 NOTES:

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: N/A

VENTILATION: Provide adequate ventilation for local areas.

RESPIRATORY PROTECTION: Respiratory protection is not required under normal circumstances. If material is misted or generates carbon dioxide, use appropriate NIOSH approved respirator or self-contained breathing apparatus.

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:

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Clear

ODOR: Slight ammonia

PHYSICAL STATE: Liquid

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pH AS SUPPLIED: 7.5  
pH (Other):

BOILING POINT:  
F°: N/A  
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 (H<sub>2</sub>O = 1) 1.310  
DENSITY, LBS/GAL: 10.91

EVAPORATION RATE: N/A

SALT-OUT TEMPERATURE: 21° F

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):	Avoid contact with aluminum, copper-containing materials.	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Nitrogen oxides may be released if dried product is burned.	
HAZARDOUS POLYMERIZATION:	Will not occur.	

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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 entry into drinking water.

SECTION 12 NOTES:

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: As product should have a pH of less than 12.5 and would not be considered a hazardous waste according to EPA regulation 40CFR261. Dispose of in accordance with all federal, state, and local regulations.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES:

## SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: NACHURS MicroBolt B™

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 MicroBolt B™

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT:

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

AIR TRANSPORTATION

PROPER SHIPPING NAME: NACHURS MicroBolt B™

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:

## SECTION 15: REGULATORY INFORMATION

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## 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:

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

PREPARATION INFORMATION: Technical Services

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