



## MATERIAL SAFETY DATA SHEET

Name of Product:

**ALPINE CRN-B®**

Product #: F 181  
Revision Date: January 26, 2018

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: ALPINE CRN-B  
SYNONYMS: 25-0-0-0.5B 33%  
PRODUCT CODES: F 181

MANUFACTURER: NACHURS ALPINE SOLUTIONS®  
DIVISION: New Hamburg  
ADDRESS: 30 Neville Street, New Hamburg, ON N3A 4G7 CANADA  
PHONE: 1-519-662-2352

EMERGENCY PHONE: 1-877-378-7745 (QM)  
CHEMTREC PHONE: 1-800-424-9300 (US)  
CANUTEC: 1-613-996-6666 (CANADA)  
FAX PHONE: N/A

CHEMICAL NAME: 25-0-0-0.5B 33%  
CHEMICAL FAMILY: N/A  
CHEMICAL FORMULA: N/A

PRODUCT USE: Agricultural Nutrient Supply

PREPARED BY: NACHURS ALPINE SOLUTIONS®

SECTION 1 NOTES:

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### SECTION 2: HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW: Use with Care!

ROUTES OF ENTRY: Inhalation, Ingestion, Injection, Absorption

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation  
SKIN: May cause irritation  
INGESTION: May cause irritation, nausea, stomach pain  
INHALATION: Irritation of mucous membrane

ACUTE HEALTH HAZARDS: See Above.

CHRONIC HEALTH HAZARDS: No data established

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Reported

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:	Nitrogen:	25%	
	Boron:	0.5%	
CAS NO.:	ALPINE SRN:	9011-05-6	
	Urea:	57-13-6	
	Boric Acid:	10043-35-3	combined 55%
	Water:	7732-18-5	45%
% WT:	100%		
% 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:

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## SECTION 4: FIRST AID MEASURES

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EYES:	Flush with plenty of water for 15 min (seek medical attention if necessary).
SKIN:	Wash skin with mild soap and water.
INGESTION:	Rinse mouth and drink lots of water. Do not induce vomiting. If spontaneous vomiting occurs, put head below hip to prevent aspiration of liquid into lungs. Seek medical attention immediately.
INHALATION:	Remove to fresh air. If discomfort continues, seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

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## SECTION 5: FIRE-FIGHTING MEASURES

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

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## HMIS HAZARD CLASSIFICATION

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0  
PROTECTION:

EXTINGUISHING MEDIA: Use media suitable for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear appropriate protective equipment to fight surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia

SECTION 5 NOTES:

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: In the case of small and large spills, isolate the spill to a contained area such as a dike or sump. Maximize recovery or absorb with an inert material (sand/kitty litter) and place in a suitable container. Reuse material (if possible) or dispose of product appropriately. Clean up residue with plenty of water.

SECTION 6 NOTES:

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## SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: Store in a suitable container made of plastic, mild steel, fiberglass or stainless steel. Do not store in aluminum containers. Make sure container is tightly closed when not in use. Store in a cool, dry and well-ventilated area, away from incompatible substances.

OTHER PRECAUTIONS: Always use good safety and industrial hygienic practices. Remove contaminated clothing and wash before reuse.

SECTION 7 NOTES:

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: Use adequate general and local exhaust ventilation to keep airborne concentrations to a minimum.

VENTILATION: Adequate ventilation recommended.

RESPIRATORY PROTECTION: Respiratory protection not normally required unless excessive heat or reaction occurs resulting in the release of ammonia. Use a self-contained breathing apparatus if these conditions may occur. Use respiratory protection if misted or sprayed.

EYE PROTECTION: Wear safety glasses to prevent eye contact due to splashing.

SKIN PROTECTION: Not required (rubber or PVC gloves recommended for prolonged exposure). Wear waterproof apron if splash or spill is likely.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Wash hands thoroughly after handling.

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EXPOSURE GUIDELINES: See Section 3.

SECTION 8 NOTES:

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Clear liquid

ODOR: May have slight ammonia odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 8-9  
pH (Other):

BOILING POINT: N/A

MELTING POINT:  
F°: 32°F  
C°: 0°C

FREEZING POINT:  
F°: 32°F  
C°: 0°C

VAPOR PRESSURE (mmHg) N/A

VAPOR DENSITY (AIR = 1) N/A

SPECIFIC GRAVITY (H<sub>2</sub>O = 1) 1.18-1.22

EVAPORATION RATE: N/A

BASIS (=1):

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT: 55%

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

VOLATILE ORGANIC COMPOUNDS (VOC): 0%  
WITH WATER LBS/GAL:  
WITHOUT WATER LBS/GAL:

MOLECULAR WEIGHT: N/A

VISCOSITY: Same as water

SECTION 9 NOTES:

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## SECTION 10: STABILITY AND REACTIVITY

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	STABLE	UNSTABLE
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):	Extreme heat or fire	
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong alkaline materials and water reactive materials.	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Ammonia and/or oxides of carbon and nitrogen may be generated if exposed to excessive heat or strong alkaline materials.	
HAZARDOUS POLYMERIZATION:	Will not occur.	
CONDITIONS TO AVOID (POLYMERIZATION):	N/A	

SECTION 10 NOTES:

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: No data for this product established. For major ingredients:

Urea – LD50 (Oral, Rat): 8471 mg/kg

SRN - LD50 (Oral, Rat): 2500 mg/Kg

SECTION 11 NOTES:

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: Do not allow entry into drinking water. This product is a fertilizer solution. Release of large quantities into a body of water can substantially alter the nutrient composition effect on aquatic plants, fish, and animal life. This may lead to eutrophication and algae blooms.

No data established for this product. For major ingredients:

Urea – EC50 (Daphnia Magna, 48 hr): 3910 mg/L

SECTION 12 NOTES:

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Disposal of fertilizer may be subject to federal, provincial/state and local regulations. Users of this product should review their operations in terms of applicable federal, provincial/state, and local laws and regulations, then consult with appropriate regulatory agent before discharging or disposing.

SECTION 13 NOTES:

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION/TRANSPORT CANADA

PROPER SHIPPING NAME: 25-0-0-0.5B 33%

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: 25-0-0-0.5B 33%

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: 25-0-0-0.5B 33%

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

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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: SRN, Urea, Boric Acid

### STATE REGULATIONS:

### INTERNATIONAL REGULATIONS:

### CANADA FEDERAL REGULATIONS:

WHMIS CLASSIFICATIONS: Not Regulated

DSL (Domestic Substance List): SRN: Yes

Urea: Yes

Boric Acid: Yes

### SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

*PREPARATION INFORMATION: Technical Services Department*

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