



# MATERIAL SAFETY DATA SHEET

Name of Product:

**NACHURS SRN®**

Product #: F000321

Revision Date: Aug 2, 2012

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: NACHURS SRN®  
SYNONYMS: 28-0-0; Liquid fertilizer solution  
PRODUCT CODES: F000321, F000359

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

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

CHEMICAL NAME: Nitrogen Blend  
CHEMICAL FAMILY: Organic Salt Solution  
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: Injection, Ingestion, Inhalation, Absorption

POTENTIAL HEALTH EFFECTS

EYES: May be irritating  
SKIN: May be irritating  
INGESTION: May be irritating  
INHALATION: May be irritating

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: Nitrogen 28%  
Sulphur 0  
P<sub>2</sub>O<sub>5</sub> 0  
K<sub>2</sub>O 0

CAS NO.: Urea: 57-13-6  
Formaldehyde: 50-00-0

% WT:  
% VOL:

SARA 313 REPORTABLE: N/A  
pmm:  
mg/m<sup>3</sup>:

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

SKIN: Flush skin immediately and thoroughly with water. If irritation persists, seek medical attention (should only affect if allergic).

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

INHALATION: Generally not considered an inhalation hazard.

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: 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

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## HMIS HAZARD CLASSIFICATION

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0  
PROTECTION:

EXTINGUISHING MEDIA: N solutions are non-flammable. If involved in a fire, use water. Use procedures for surrounding materials

SPECIAL FIRE FIGHTING PROCEDURES: Heating to dryness may cause release of carbon dioxide and ammonia.

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: Since N-P-K-S is a fertilizer, it may promote eutrophication in waterways. In the case of a spill, contain spill and maximize recovery. Mop up or pump up promptly in metal or plastic containers.

SECTION 6 NOTES:

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## SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: N/A

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 area.

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

EYE PROTECTION: Safety glasses are recommended

SKIN PROTECTION: Rubber gloves are recommended

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: N/A

EXPOSURE GUIDELINES: N/A

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## SECTION 8 NOTES:

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Clear liquid

ODOR: Slight amine odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 9.0-10.5  
pH (Other):

BOILING POINT:  
F°: 219.2°F  
C°: 104°C

MELTING POINT: N/A

FREEZING POINT: Similar to water

VAPOR PRESSURE (mmHg) N/A

VAPOR DENSITY (AIR = 1) N/A

SPECIFIC GRAVITY (H<sub>2</sub>O = 1) 1.28-1.30  
DENSITY, LBS/GAL: 10.72

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT: N/A

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:

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### SECTION 10: STABILITY AND REACTIVITY

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	STABLE	UNSTABLE
STABILITY:	X	
CONDITIONS TO AVOID (STABILITY):	When heated (e.g. in a fire) may give off ammonia gas.	
INCOMPATIBILITY (MATERIAL TO AVOID):	Water-reactive materials.	

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HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Ammonia

HAZARDOUS POLYMERIZATION: Will not occur

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 drinking water

SECTION 12 NOTES:

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal of N-P-K-S fertilizer 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 SRN®

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 SRN®

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 SRN®

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:

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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: Urea, Formaldehyde

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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