



# MATERIAL SAFETY DATA SHEET

Name of Product:

**NACHURS W10™**

Product #: F00014

Revision Date: Aug 2, 2012

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: NACHURS W10™  
SYNONYMS: 10-10-10; In furrow fertilizer  
PRODUCT CODES: F000014, F000027

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,  
CHEMICAL FAMILY: Inorganic Complex  
CHEMICAL FORMULA: N/A

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:	N/A
INGESTION:	May cause irritation
INHALATION:	N/A

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:	10%
	Sulphur:	0-1%

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	P <sub>2</sub> O <sub>5</sub> :	10%
	K <sub>2</sub> O:	10%
CAS NO.:	Urea:	57-13-6
	KOH:	1310-58-3
	Phosphoric Acid:	7664-38-2
	% 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:

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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

HMIS HAZARD CLASSIFICATION

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0  
PROTECTION:

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EXTINGUISHING MEDIA: N-P-K solutions are non-flammable. If involved in a fire, use water or media suitable for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES: N/A

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 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: 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:

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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: 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/goggles are recommended

SKIN PROTECTION: N/A

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 nearly colorless liquid.

ODOR: No apparent odor and/or mild ammonia.

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PHYSICAL STATE: Liquid

pH AS SUPPLIED: 7.4-7.8  
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 (H<sub>2</sub>O = 1) 1.26-1.29

DENSITY, LBS/GAL: 10.55

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:

## SECTION 10: STABILITY AND REACTIVITY

	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.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:		Ammonia
HAZARDOUS POLYMERIZATION:		Will not occur
CONDITIONS TO AVOID (POLYMERIZATION):		N/A

SECTION 10 NOTES:

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## 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. 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 W10™

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 W10™

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 W10™

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

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT):

Yes

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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, Potassium Hydroxide, Phosphoric Acid

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*

**DISCLAIMER:** The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and NACHURS ALPINE SOLUTIONS® will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years.