



MATERIAL SAFETY DATA SHEET

Name of Product:

NACHURS TMR-F™

Product #: F000280

Revision Date: Aug 2, 2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NACHURS TMR-F™
SYNONYMS: 3-16-16 TMR Foliar; Liquid fertilizer solution
PRODUCT CODES: F000280, F000363

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

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

CHEMICAL NAME: TMR Base
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE:

PREPARED BY: NACHURS ALPINE SOLUTIONS®

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY: Inhalation, Ingestion, Injection, Absorption

POTENTIAL HEALTH EFFECTS

EYES: Irritation.
SKIN: N/A
INGESTION: 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:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENT: Mono potassium phosphate:
Di potassium phosphate:
Ammonium orthophosphate:
Ammonium polyphosphate:
Urea:
Chelated Micronutrients:

CAS NO.: Mono potassium phosphate: 7778-77-0
Di potassium phosphate: 7758-11-4
Ammonium orthophosphate: 7783-28-0
Ammonium polyphosphate: 68333-79-9
Urea: 57-13-6
Chelated Micronutrients:

% WT:
% VOL:
SARA 313 REPORTABLE:
pmm:
mg/m3:

OSHA PEL-TWA:
OSHA PEL STEL:
OSHA PEL CEILING:

ACGIH TLV-TWA:
ACGIH TLV STEL:
ACGIH TLV CEILING:

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with plenty of water for 15 min (seek medical attention if necessary).
SKIN: Rinse skin with plenty of water. If irritation persists seek medical attention.
INGESTION: Rinse mouth and drink water (call physician).
INHALATION: No usually an inhalation risk.

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

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HMIS HAZARD CLASSIFICATION

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
PROTECTION:

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Small spills can be wiped up and disposed of in garbage.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid splashing and do not store in aluminium tank.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION: N/A

RESPIRATORY PROTECTION: N/A

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

SKIN PROTECTION: Wear waterproof apron if splash or spill is likely.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear Green Liquid

ODOR: None

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 7.5-8.0
pH (Other):

BOILING POINT:

F°: 212°F
C°: 100 °C

MELTING POINT:

F°: 14 °F
C°: -10 °C

FREEZING POINT:

F°: 14 °F
C°: -10 °C

VAPOR PRESSURE (mmHg) N/A

VAPOR DENSITY (AIR = 1) N/A

SPECIFIC GRAVITY (H₂O = 1) 1.35

DENSITY, LBS/GAL: 11.25

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT:

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

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	STABLE	UNSTABLE
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):	N/A	
INCOMPATIBILITY (MATERIAL TO AVOID):	N/A	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	N/A	
HAZARDOUS POLYMERIZATION:	N/A	
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: Large spills should be absorbed with sand, sawdust and or other absorbent materials and disposed of in accordance to local regulations.

RCRA HAZARD CLASS:

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: NACHURS TMR-F™
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 TMR-F™
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A

LABEL STATEMENTS:

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

AIR TRANSPORTATION

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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

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: Mono potassium phosphate, Di potassium phosphate, Ammonium orthophosphate, Ammonium polyphosphate, Urea, Chelated micronutrients:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: *Technical Services*

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