



SAFETY DATA SHEET

Product #: See Section 1

Name of Product:

Revision Date: August 17, 2015

DIPOTASSIUM PHOSPHATE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Dipotassium Phosphate
SYNONYMS: Potassium monohydrogen phosphate; Dipotassium hydrogen phosphate
PRODUCT CODES: I000047, I000083, I000108, I0000118, I0000121

MANUFACTURER: NACHURS ALPINE SOLUTIONS
DIVISION: Marion
ADDRESS: 421 Leader Street, Marion, OH43302, United States

PHONE: 800-622-4877 (USA)
800-265-2268 (CANADA)

EMERGENCY PHONE: United States: Chemtrec: 800-424-9300
Canada: CANUTEC: 1-613-996-6666
I TECH 877-324-4402

CHEMICAL NAME: Dipotassium Phosphate
CHEMICAL FAMILY: Inorganic
CHEMICAL FORMULA: K_2HPO_4

PRODUCT USE: Fertilizer, Food Additive, Buffering Agent

SECTION 2: HAZARDS IDENTIFICATION

GHS ELEMENTS:

Hazard Classification: Corrosive to Metals (Category 1).

Pictogram:



Signal Word: Warning

Hazard Statements: May be corrosive to metals (aluminum).

Precautionary Statements: Keep only in original container,
Absorb spillage to prevent material damage.
Store in corrosive resistant container or container with corrosive resistant liner.

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

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SECTION 2 NOTES: Product has low oral and dermal toxicity, and is mildly irritating to the eyes and skin. Large doses may cause nausea, vomiting and diarrhea when ingested.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	Potassium Phosphate	20-50%	CAS# 7758-11-4
	Water	50-80%	CAS# 7732-18-5

SARA 313 REPORTABLE: N/A

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 4: FIRST AID MEASURES

EYES: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.

SKIN: Wash thoroughly with soap and water. If irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting. Seek medical attention.

INHALATION: Under normal circumstances, is not an inhalation hazard. If misted and inhaled, remove to fresh air and seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY: Non-flammable.

FLAMMABLE LIMITS IN AIR:
(% BY VOLUME) UPPER: N/A
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: 2
FLAMMABILITY: 0
REACTIVITY: 0
OTHER: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0
PROTECTION: B

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EXTINGUISHING MEDIA: Water or media suitable for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of phosphorus may be produced at high temperatures.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear appropriate personal protective equipment as discussed in Section 8. Confine the spill to a diked area or sump, if possible, and recover as much of the product as possible. Place in suitable containers.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: This product is corrosive to aluminum, copper and copper alloys and these materials should not be used for storage or transfer. Store in suitable containers made of stainless steel, plastic or fiberglass. Make sure tanks are structurally designed for the density of this product.

OTHER PRECAUTIONS: N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION: Generally not required. If misted use mechanical ventilation.

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

EYE PROTECTION: Chemical splash goggles and full face shield.

SKIN PROTECTION: Rubber or plastic gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Always follow good safety and industrial hygienic practices.

EXPOSURE GUIDELINES: See section 3.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, nearly colorless liquid.

ODOR: No apparent odor.

ODOR THRESHOLD: No data available.

PHYSICAL STATE: Liquid.

pH AS SUPPLIED: 8.5-10.5

BOILING POINT:
F°: >220
C°: >104

MELTING POINT:
F°: N/A

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	C°:	N/A
FREEZING POINT:	F°:	N/A
	C°:	N/A
FLASH POINT:	F°:	N/A
	C°:	N/A
METHOD USED:		N/A
EVAPORATION RATE:		N/A
FLAMABILITY:		Not flammable.
FLAMMABLE LIMITS IN AIR: (% BY VOLUME)	UPPER:	N/A
	LOWER:	N/A
VAPOR PRESSURE (mmHg):		not determined.
VAPOR DENSITY (AIR = 1):		Unknown
SPECIFIC GRAVITY (H ₂ O = 1):		1.18-1.55
DENSITY, LBS/GAL:		9.8-12.9
PERCENT SOLIDS BY WEIGHT:		20-50%
PERCENT SOLIDS BY WEIGHT:		20-50%
PERCENT VOLATILE:		50-80% (BY WT)
VOLATILE ORGANIC COMPOUNDS (VOC):		N/A
AUTOIGNITION TEMPERATURE:		N/A
THERMON DECOMPOSITIONS:		N/A
MOLECULAR WEIGHT:		174.2
VISCOSITY:		Not determined.

SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):	Prevent contamination with other chemicals	
INCOMPATIBILITY (MATERIAL TO AVOID):	N/A	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Oxides of phosphorus may be produced at high temperatures.	
HAZARDOUS POLYMERIZATION:	Will not occur.	
CONDITIONS TO AVOID (POLYMERIZATION):	N/A	

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Unknown.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not allow into drinking water.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Reclaim and reuse as much as possible. Dispose in accordance with all federal, state, and local regulations.

RCRA HAZARD CLASS: N/A

SECTION 14: TRANSPORT INFORMATION

Caution: Differences between BULK and NON-BULK DOT based on aluminum corrosivity. See Section Note.

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: Dipotassium phosphate solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: N/A
Health: 2 Flammability: 0 Reactivity: 0 Specific: None

WATER TRANSPORTATION:

PROPER SHIPPING NAME: Dipotassium phosphate solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A
Health: 2 Flammability: 0 Reactivity: 0 Specific: None

AIR TRANSPORTATION

PROPER SHIPPING NAME: Dipotassium phosphate solution
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A
Health: 2 Flammability: 0 Reactivity: 0 Specific: None

OTHER AGENCIES:

SECTION 14 NOTES: In accordance with 49 CFR 173.154 (d) (1), when shipped by motor vehicle or rail cars in stainless steel or plastic bulk containers this product will NOT be classified as a hazardous material. However, if shipped in non-bulk containers that may be transported in aluminum motor vehicles or rail cars, this product will be classified as a hazardous material solely because of its corrosive effect to aluminum and will be designated as follows:

UN3266, Corrosive liquid, basic, inorganic, n.o.s. (dipotassium phosphate).

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

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311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS:

Canadian DSL/NDSL

CAS# 7758-11-4 is listed on Canada's DSL list.

Canada Ingredient Disclosure List:

CAS# 7758-11-4 is not listed on Canada's Ingredient Disclosure List.

SECTION 16: 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.

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