

D. A. Phosphorous

MATERIAL SAFETY DATA SHEET					
SECTION 1 - PRODUCT SOURCE AND IDENTITY					
Supplier identity and address			Product description:		Date: Oct. 8, 2007
Soil Works LLC PO Box 119 Yankton, SD 57078 605-940-3716			Name: D. A. Phosphorous Purpose: Plant nutrients with enzyme booster Proprietary Formula Code: AGT DAP		
			Product information: 605-260-0784		
SECTION 2 - SHIPPING CLASSIFICATION					
Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number					
Not regulated					
Labels required per 49 CFR 172.101:			None		
Size for "Limited quantity" per 49 CFR 173.150-.155:			Not applicable		
Reportable Quantity ("RQ") per 49 CFR 172.101:			None or not possible in one non-bulk package		
SECTION 3 - SAFETY RATINGS AND HAZARDOUS INGREDIENT INFORMATION					
Reporting required by Title III Sec 313, 40 CFR 372, 29 CFR 1910.1200				Exposure Limit Values	
CAS#	313	Material or Component	%	RQ#	OSHA PEL (for each)
Contains materials which can contribute to eye and skin irritation but for which no exposure limits have been established. Major NPK sources are listed below.					
7722-76-1	No	Mono ammonium phosphate	80-90	None	* See below
7779-77-0	No	Mono potassium phosphate	5-15	None	* See below
Also contains non hazardous enzymes and flow aids.				* 15 mg/m3 Total; 5 mg/m3 Respirable	
*Contains no nitrates. For product specific analysis, refer to product's Guaranteed Analysis Tag or Label, as required by state agricultural regulations.					
No component is listed in "THRESHOLD LIMIT VALUES AND BIOLOGICAL EXPOSURE INDICES FOR 2007" from ACGIH except as noted above. Components listed in TITLE III SEC 313 (EPCRA) are indicated by "Yes" above.					
Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components. Users who require this information are referred to primary suppliers of the ingredients of interest.					
Emergency overview: Keep dry and away from heat. Irritating to eyes, skin and respiratory system. Do not take internally. Keep containers covered to avoid absorption of water from the air.					
Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	No	No	No	
Delayed	No	No	No	No	
HMIS Hazard ratings: Health 1 Fire 0 Instability 0 Other B (Glasses, gloves)					
NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special NA					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					
Note: HMIS and NFPA ratings are subjective evaluations of hazards and can differ between preparers. They are intended and useful only as a rapid approximation of the hazards rated.					
Threshold limit value: Not established on product.					
TOSCA Status: All ingredients listed			CERCLA RQ: See Sec 2.		
California Prop. 65: None			Ingredients on cancer lists: 14808-60-7 if respirable.		
Reproductive implications: None					
SECTION 4 - PHYSICAL AND CHEMICAL PROPERTIES					
Appearance:	Tan-grey solid granules			Flash point deg. F (cc):	NA
Odor:	Slight acidic or ammonia odor.			Initial boiling point deg. C:	NA
Bulk density:	Not determined			Vapor pressure 20 deg C:	NA

pH and Phosphorus determined	Freezing point deg. C:	PAGE 2
VOC Content: None	Solubility in water:	Complete
California Rule 102 (66): Contains no photo chemically active materials.		

SECTION 5 - SAFE HANDLING AND STORAGE

General	Store in a cool, dry place. Keep containers closed to prevent moisture pick up. Avoid extended contact with skin. Sweep up spills promptly. Do not breathe dust or mist.
Protective equipment	
Eyes	Safety glasses or goggles should be worn if there is possibility of eye contact.
Skin	Impermeable gloves such as rubber, PVC or neoprene are recommended.
Respiratory protection	None normally required. If risk of inhalation occurs, select and use equipment according to OSHA/NIOSH guidelines for nuisance dust or mists.
Ventilation	A well ventilated work environment is recommended.
Other	None

SECTION 6 - HEALTH SAFETY DATA

Effects of acute or chronic over exposure	
Eyes	Irritating to eyes. No chronic effects known.
Skin	Can cause irritation from repeated exposure.
Inhalation	Dust or mists may be irritating to breathing passages.
Ingestion	Not a likely source of chronic exposure.

SECTION 7 - PHYSICAL STABILITY AND REACTIVITY DATA

Explosive limits	Flash point:	See Sec 4
Lower None	Upper None	Conditions to avoid: Avoid exposure to moist air.
Chemical stability	Stable	Hazardous decomposition products: Phosphoric acid and ammonia fumes can be generated if the product is in a fire.
Hazardous polymerization	Cannot occur	Incompatibility: Strong acids can produce phosphoric acid and/or fumes.

SECTION 8 - EMERGENCY RESPONSE PROCEDURES

Fire	Extinguishing media	Use equipment appropriate to the main cause of the fire.
	Special procedures	Spread product and douse with water to cool. Keep out of sewers. Wear SCBA with positive pressure if product is involved.
	Unusual hazards	Ammonia or acid fumes may be formed in a fire.
First Aid	Eyes	Flush with water for at least 15 min. Seek medical attention. See Sec. 6.
	Skin	Wash exposed skin with soap and water until gone. Remove affected clothes rinse off product and wash clothes before reuse.
	Inhalation	If affected, remove individual to fresh air. Get medical attention at once if there is any discomfort.
	Ingestion	For large amounts, dilute by giving large amounts of milk or water. Get medical attention immediately. Do not induce vomiting. Small amounts are not toxic.
Spills	Small / large spill	Small amounts may be flushed to drain. Comply with federal, state and local regulations on reporting spills. Keep out of waterways and storm sewers.

Product as made does not qualify as an "Unlisted Hazardous Waste" for disposal situations.

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MSDS prepared by: R.N. Miller 1-800-342-3577