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## MATERIAL SAFETY DATA SHEET

SECTION I    PRODUCT INFORMATION	
TRADE NAME:	Granular Triple Superphosphate
COMMON NAME:	Calcium Phosphate Monobasic GTSP 0 - 46 - 0 GTSP 0 - 45 - 0
HMIS RATING:	Health Hazard-1 Fire Hazard-0 Reactivity Hazard-0 Specific Hazard-none
C.A.S. NUMBER:	65996 - 95 - 4
CHEMICAL FAMILY:	Calcium Phosphates
SECTION II    INGREDIENTS	
FORMULA:	$\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$
COMPOSITION:	Phosphate as $\text{P}_2\text{O}_5$ 45.0 - 46.0% Water    2.0%
SECTION III    HAZARD IDENTIFICATION	
CLASSIFICATION:	Non-Toxic
EMERGENCY CONCERNS:	None Established
PRECAUTIONARY MEASURE:	Avoid breathing dust Avoid ingestion Avoid excessive contact with eyes Use in adequate ventilation
OVEREXPOSURE CONDITIONS:	Acute: Unknown Chronic: Unknown
SECTION IV    FIRST AID MEASURES	

<b>IMMEDIATE TREATMENT:</b>	<p>If in eyes: Flush with plenty of water for at least 15 minutes. Get medical attention as soon as possible.</p> <p>If on skin: Wash contaminated area with soap or mild detergent and water. If chemical or solution soaks through clothing, remove clothing in area and wash contaminated skin as above. If irritation persists after washing, seek medical attention.</p> <p>If inhaled: Move to fresh air. Treat symptomatically. Get medical attention promptly.</p> <p>If ingested: Give large quantities of water to patient if conscious. Induce vomiting and seek medical attention.</p>
<b>FIRST AID TREATMENT:</b>	Same as above
<b>A NOTE TO PHYSICIAN:</b>	Not applicable

## SECTION V FIRE FIGHTING MEASURES

<b>FLASH POINT:</b>	Not applicable
<b>FIRE FIGHTING HAZARDS:</b>	Not applicable
<b>APPROPRIATE EXTINGUISHING MEDIA:</b>	<p>Small fires: Water spray, foam, dry chemical or CO<sub>2</sub></p> <p>Large fires: Water spray, fog or foam</p>
<b>SPECIFIC PROTECTIVE EQUIPMENT:</b>	Wear self-contained breathing apparatus with full protective clothing

## SECTION VI ACCIDENTAL RELEASE MEASURES

<b>CONTROLLING SPILLS:</b>	<p>Small spills: Carefully shovel material into dry container. Remove from site</p> <p>Large spills: Use same procedure as above. Contact proper local, state, or federal regulatory agency (ies) to ascertain proper disposal techniques and procedures.</p>
<b>PPE:</b>	Wear respiratory equipment to avoid breathing dust.

## SECTION VII HANDLING AND STORAGE

<b>STORAGE CONDITIONS:</b>	None Listed
<b>HANDLING PROCEDURES:</b>	Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Maintain proper hygiene practices when handling this product.

## SECTION VIII EXPOSURE CONTROLS / PPE

<b>EXPOSURE LIMITS:</b>	<p>OSHA Permissible Exposure Limits ( PEL): Unknown</p> <p>ACGIH Threshold Limit Value (TLV): Unknown</p>
<b>PPE:</b>	<p>Respiratory Protection: Single use dust respirator</p> <p>Skin Protection: Protect open wounds</p> <p>Eye Protection: Eye protection should be worn at all times.</p>
<b>ENGINEERING CONTROLS:</b>	None established

## SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE / ODOR / COLOR:</b>	Gray, granulated solid material with slight odor.
<b>BOILING POINT(°F):</b>	Not applicable

<b>MELTING POINT (°F):</b>	Not applicable
<b>VAPOR PRESSURE (mmHg):</b>	Not applicable
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	2.05
<b>% VOLATILE BY VOLUME:</b>	Not applicable
<b>VAPOR DENSITY:</b>	Not applicable
<b>SOLUBILITY IN WATER:</b>	20°C 85.0%
<b>EVAPORATION RATE (BUTYL ACETATE = 1):</b>	Not applicable
<b>MOLECULAR WEIGHT:</b>	252.02
<b>PHYSICAL STATE:</b>	Solid
<b>DENSITY - BULK:</b>	(Packed) 74.8 lbs./ft <sup>3</sup>
<b>pH:</b>	(1% Sol.) 3.0

## SECTION X STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur
<b>CONDITIONS AND MATERIALS TO AVOID:</b>	Extreme temperatures
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Extreme temperatures such as a fire causes formation of toxic fumes of PO <sub>x</sub> .

## SECTION XI TOXICOLOGY INFORMATION

<b>PRODUCT TOXICOLOGICAL DATA:</b>	Mammalian: Oral LD <sub>50</sub> (Sheep): 5,000 - 6000 mg/kg
	Not found to be toxic by oral exposure as defined by OSHA. Based on toxicity data for other phosphate compounds (i.e., ammonium nitrates), not expected to be toxic by dermal exposure as defined by OSHA.

## SECTION XII ECOLOGICAL INFORMATION

<b>ECOTOXICOLOGY:</b>	Aquatic: Fish 96 hour LC <sub>50</sub> : 1560 - 5900 mg/L Daphnia 72 hour EC <sub>50</sub> : 1790 - 1825 mg/L Algae, OECD Guidelines 201 (green algae, <i>Selenastrum</i> ) No toxicity at up to 87.6 mg/L; stimulation observed at 42.6 mg/L and higher. Non-toxic to aquatic organisms as defined by USEPA.
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## SECTION XIII DISPOSAL CONSIDERATIONS

<b>WASTE DISPOSAL CONSIDERATIONS</b>	Pick up with shovel and broom and broadcast as fertilizer using proper agriculture and soil management.
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## SECTION XIV TRANSPORT INFORMATION

<b>SHIPPING NAME:</b>	Not regulated by D.O.T
<b>HAZARD CLASS:</b>	Not applicable
<b>D.O.T. NUMBER:</b>	Not applicable

## SECTION XV REGULATORY INFORMATION

**REPORTABLE QUANTITIES:** Not on the 302 list of SARA reportable quantities

**HAZ WASTE NO:** None established

**EPA REGISTER NO:** None established

## SECTION XVI OTHER INFORMATION

**NONE LISTED**

**REFERENCES:** Sax and Lewis, *Dangerous Properties of Industrial Materials*, seventh edition, VanNostrand Reinhold Co., N.Y., 1989.

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