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RIVERVIEW, FLORIDA 33569
EMERGENCY TELEPHONE - CHEMTREC 1-800-424-9300

MATERIAL SAFETY DATA SHEET

Revised 11/24/03

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 P_2O_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

IMMEDIATE TREATMENT:	<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>
FIRST AID TREATMENT:	Same as above
A NOTE TO PHYSICIAN:	Not applicable

SECTION V FIRE FIGHTING MEASURES

FLASH POINT:	Not applicable
FIRE FIGHTING HAZARDS:	Not applicable
APPROPRIATE EXTINGUISHING MEDIA:	<p>Small fires: Water spray, foam, dry chemical or CO₂</p> <p>Large fires: Water spray, fog or foam</p>
SPECIFIC PROTECTIVE EQUIPMENT:	Wear self-contained breathing apparatus with full protective clothing

SECTION VI ACCIDENTAL RELEASE MEASURES

CONTROLLING SPILLS:	<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>
PPE:	Wear respiratory equipment to avoid breathing dust.

SECTION VII HANDLING AND STORAGE

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

SECTION VIII EXPOSURE CONTROLS / PPE

EXPOSURE LIMITS:	<p>OSHA Permissible Exposure Limits (PEL): Unknown</p> <p>ACGIH Threshold Limit Value (TLV): Unknown</p>
PPE:	<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>
ENGINEERING CONTROLS:	None established

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

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

MELTING POINT (°F):	Not applicable
VAPOR PRESSURE (mmHg):	Not applicable
SPECIFIC GRAVITY (H₂O = 1):	2.05
% VOLATILE BY VOLUME:	Not applicable
VAPOR DENSITY:	Not applicable
SOLUBILITY IN WATER:	20°C 85.0%
EVAPORATION RATE (BUTYL ACETATE = 1):	Not applicable
MOLECULAR WEIGHT:	252.02
PHYSICAL STATE:	Solid
DENSITY - BULK:	(Packed) 74.8 lbs./ft ³
pH:	(1% Sol.) 3.0

SECTION X STABILITY AND REACTIVITY

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

SECTION XI TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGICAL DATA:	Mammalian: Oral LD ₅₀ (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

ECOTOXICOLOGY:	Aquatic: Fish 96 hour LC ₅₀ : 1560 - 5900 mg/L Daphnia 72 hour EC ₅₀ : 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

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

SHIPPING NAME:	Not regulated by D.O.T
HAZARD CLASS:	Not applicable
D.O.T. NUMBER:	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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