

MATERIAL SAFETY DATA SHEET

GTSP-Granular Triplessuperphosphate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name :	GTSP-Granular Triplessuperphosphate 0-46-0	
Chemical Name :	Monocalcium Orthophosphate	
Chemical Family :	Inorganic salt	
Synonyms/Brands :	GTSP, 0-46-0, Triple, Calcium Phosphate Monobasic, Acid Calcium Phosphate	
Primary Use :	Crop nutrient	
Responsible Party :	OCP GROUP 02 Rue Al Abtal, Hay erraha BP5196, Casablanca Tel : 212 22 23 04 24 Fax : 212 22 23 06 35	Plants Location: - Safi plant Route Djorf El Youdi BP 219 Safi Tel 212-24-46-30-89 Fax : 212-24-46-24-03 - Jorf Lasfar plant Tel 212-23-34-53-13 Fax : 212-23-34-50-92

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	% Weight	Exposure Guideline		
		Limits	Agency	Type
Calcium Phosphate Monobasic CAS N°.7758-23-8	95 - 98	NE	OSHA ACGIH	All
Iron, Aluminium and Magnesium Sulfates and Silicates CAS N°. (various)	2 - 5	NE	OSHA ACGIH	All

NE = Not established, but the following particulate limits apply to all inert inorganic dusts.

Particulates Not Otherwise Classified (PNOC)	10 mg/m ³ 3 mg/m ³	ACGIH ACGIH	TWA-Inhalable TWA-Respirable
Particulates Not Otherwise Regulated (PNOR)	15 mg/m ³ 5 mg/m ³	OSHA OSHA	TWA-Total Dust TWA-Respirable

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS	
Eye :	Prolonged contact may cause severe eye irritation, eye burns, and permanent eye
Skin :	Contact may cause mild irritation including redness and a burning sensation.No harmful effects from skin absorption have been reported.
Inhalation (Breathing) :	No information available.Studies by other exposure routes suggest a low degree of hazard by inhalation.
Ingestion (Swallowing) :	Low degree of toxicity by ingestion.
Signs and Symptoms :	Effects of overexposure may include irritation of the nose, throat and digestive tract, nausea,vomiting and diarrhea.
Other Comments :	This material cotains iron compound(s) of various composition.Effects of overexposure to dusts can include irritation of the eyes and respiratory tract,pneumoconiosis(dust congested lungs) pneumonitis(lung inflammation),coughing,vomiting,diarrhea,abdominal pain and jaundice.

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4. FIRST MEASURES

Eye Contact :	Immediately move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 30 minutes. Seek immediate medical attention.
Skin Contact :	Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.
Inhalation (Breathing) :	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
Ingestion :	First aid is not normally required, however, if swallowed and symptoms develop, seek medical attention.

5. FIRE- FIGHTING MEASURES

Extinguishing Media :	Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff.
Fire Fighting Instructions :	For fires beyond the incipient stage, emergency in the immediate hazard area should wear bunker gear. When the potential hazard is unknown, in enclosed or confined spaces, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant; Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid excessive water to minimize runoff.

7. ACCIDENTAL RELEASE MEASURES

	<p>GTSP is a crop nutrient and plant food; however, large spills can harm or kill vegetation.</p> <ul style="list-style-type: none"> * Stay upwind and away from spill (dust hazard). Minimize dust generation. * Wear appropriate protective equipment, including respiratory protection, as conditions warrant. * Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. * Notify appropriate federal, state, and local agencies as may be required. * Sweep up and package appropriately for disposal.
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8. HANDLING AND STORAGE

Handling :	Use appropriate respiratory protection is advised when concentrations exceed established exposure limits. Wash thoroughly after handling. Wash contaminated clothing or shoes; Use good personal hygiene practices.
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Storage :	When possible store this material in cool, dry, well-ventilated areas to protect product quality. Keep containers tightly closed. Store only in approved containers, if applicable. Keep away from any incompatible materials. Protect containers against physical damage.
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9. EXPOSURE CONTROL/ PERSONAL PROTECTION

Precautionary, engineering measures:	Avoid high dust concentration and provide ventilation where necessary.
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Personal Protective Equipment (PPE)	
Respiratory :	A NIOSH approved air purifying respirator with a type 95(R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator.
Skin :	The use of cloth or leather work gloves is advised to prevent skin contact, possible irritation and absorption.
Eye/Face :	Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Other PPE :	A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Tan to black for GTSP of Safi and gray for GTSP of Jorf Lasfar.
Odor :	Slight
Flash point :	Not applicable
Autoignition Temperature :	Not applicable
Physical State :	Solid
Molecular Weight of Pure Material :	252.07
Vapor Pressure (mm Hg)	Not applicable
Solubility in water :	1 lb/gallon / 0,12kg/litre
Specific Gravity :	2,17 - 2,27 (Water = 1)
Bulk density :	68 - 72 lbs/ft ³ (1090 - 1150kg/m ³)
Volatility :	No data available
pH :	2,5 - 2,8 in a 1% solution
Vapor Density (air=1) :	Not applicable
Freezing/Melting point :	288°F / 142°C
Boiling point :	Decomposes.

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11. STABILITY AND REACTIVITY

Chemical Stability :	product is stable under normal conditions of storage, handling and use.
Hazardous reactions/ Decomposition products :	None known.
Conditions to avoid :	None known.
Incompatible Materials :	None known.
Hazrdous Polymerization :	Will not occur.

12. ECOLOGICAL INFORMATION

BOD and COD:	No data found.
Ecotoxicity :	May release phosphates which will result in alage growth, increased turbidity,and depleted oxygen.At extremely high concentrations,this may be hazardous to fish or other marine organisms. Relase to watercourses may cause effects downstream.