SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

MANUFACTURER:	Griffin Bros., Inc
	P.O. Box 7719
	Salem, OR 97303
INFORMATION:	(800) 456-4743
EMERGENCY PHONE:	CHEMTREC: (800) 424-9300
PRODUCT NAME:	Trisodium Phosphate
PRODUCT NUMBER:	G-531
DATE PREPARED:	03/03/2015
LAST REVISION:	07/18/2015

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Uses: Substance used as surformulation or in formulation of Detergent, Treatment of textils Metal treatment, Water treatmer Formulation Fertilizer, Laborate chemicals, Ceramics, Dyes etc	products and leat nt, ory	
 PURE: LIC	QUID:	
MIXTURE: X SO	OLID:	X

Trisodium Phosphate

2. HAZARDOUS IDENTIFICATION:

EMERGENCY OVERVIEW: Corrosive

GHS CLASSIFICATION: Skin: (Category 2), Eyes: (Category 2A), STOT - Single Exposure (Category 3) Respiratory

GHS Label elements, including precautionary statements SIGNAL WORD: Warning PICTOGRAM:

SIGNAL WORD: Warning HAZARD STATEMENT(S):

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

PRECAUTIONARY STATEMENT(S):

P261: Avoid breathing spray, mist, fume, gas, dust, vapours

P280: Wear protective gloves, protective clothing, eye protection, face protection

P302+P352: IF ON SKIN: Wash with plenty of hands, forearms and face

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P332+P313: IF SKIN irritation occurs: Get medical advice/attention

P337+P313: IF EYE irritation persists: Get medical advice/attention

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name	CAS #	Wt. Range %
TRISODIUM PHOSPHATE	10101-89-0	>= 98.5
Balance of formula is Proprietary Non-hazardous materials		Balance

4. FIRST AID MEASURES:

GENERAL ADVICE: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.EYE CONTACT:Immediately flush eyes with water for at least 15 minutes. Hold eyelids open while flushing the eyes.INHALATION:Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Get medical attention immediately.

INGESTION: If swallowed, do NOT induce vomiting. Give victim lots of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.

SKIN CONTACT: Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists. AGGRAVATED MEDICAL CONDITIONS: Pre-existing eye, skin or respiratory conditions.

SUPPLEMENTAL HEALTH INFORMATION: The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

COMBUSTION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Pick up and arrange disposal without creating dust. Sweep up and shovel. DO NOT add water to spilled material. DO NOT use floor sweeping compounds to clean up spills. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not handle until all safety precautions have been read and understood. Do not allow product to get wet. If liner is present, tie after each use. Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Wear personal protection as required per safety program. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

OTHER PRECAUTIONS: For industrial and institutional use only. Keep away from children. Keep containers closed while not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

EXPOSURE CONTROLS:

		OSHA PEL	ACGIH TLV		
	Chemical Name	TWA	STEL	TWA	STEL
TRISODIUM PHOSPHATE Respirable: 5 mg/m ³ . Inhalable: 15 mg/m ³ Respirable: 3 mg/m ³ . Inhalable: 10 mg/m ³	TRISODIUM PHOSPHATE	Respirable: 5 mg/m ³ . Inhalable: 15mg/m ³		Respirable: 3 mg/m ³ . Inhalable: 10 mg/m ³	

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION	I: Use respiratory protection mask according to NIOSH/MSHA. Respiratory protection programs must comply with 29 CFR 1910.134.
	1 5
VENTILATION:	Local exhaust sufficient to keep exposure below TLV.
WORK/HYGENIC PRACTICES	Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the
	toilet.
EYE PROTECTION:	Use chemical safety goggles and/or full face shield when splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas
PROTECTIVE GLOVES:	Rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, as appropriate to avoid skin contact. ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES:

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

a) Appearance: White granular powder	k) Vapor pressure (mm/hg): No data available
b) Odor: Odorless	l) Vapor density (Air = 1): No data available
d) pH: 11.7 - 12.5 at 50 g/l at 20 °C (68 °F)	m) Relative density (Specific Gravity): Not applicable
e) Melting point/freezing point: No data available	n) Water solubility: 21g / 100g saturated solution @ 25 °C
f) Initial boiling point and boiling range: Not applicable	p) Auto-ignition temperature: n/a
g) Flash point: n/a Method Used: n/a	r) Viscosity: n/a
h) Evaporation rate: No data available	-) Pounds Per Gallon: Not applicable
j) Upper/lower flammability or explosive limits: UEL: n/a LEL: n/a	OTHER: No other data is available for this product

10. STABILITY AND REACTIVITY:

STABLE: Stable under recommended storage conditions.

INCOMPATIBILITY: Take care when using on aluminum. This material could be corrosive to aluminum surfaces because of the high pH. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: oxides of carbon

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Do not get water/moisture inside container, product is hygroscopic. Avoid contact with incompatible materials.

11. TOXICOLOGICAL INFORMATION:

Laboratory data

Data from ICL Performance LP single-dose (acute) animal studies with this material are given below:

ORAL - RAT LD50: 6,500 mg/kg; practically non-toxic

DERMAL – RABBIT LD50: > 7940 mgt/kg; practically non-toxic

EYE IRRITATION - RABBIT (4-HR EXP.): corrosive

SKIN IRRITATION – RABBIT: 3.3 / 8.0; moderately irritating

The anhydrous form of this material produced no mutagenic effects in standard assays using fruit flies.

This material has been defined as a hazardous chemical under criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

12. ECOLOGICAL INFORMATION:

The following data have been classified using criteria adopted by the European Economic Community (ECC) for aquatic organism toxicity. **INVERTEBRATE:**

- 48-hr EC50 Daphnia magna: >1000 mg/L; Practically Non-toxic
- WARMWATER FISH: 96-hr LC50 Bluegill sunfish: 440 mg/L; Practically Non-toxic

COLDWATER FISH: 96-hr LC50 Rainbow Trout: 260 mg/L; Practically Non-toxic

13. DISPOSAL CONSIDERATIONS: This material when discarded in pure form is not a hazardous waste as defined by 40 CFR 261, the Resource Conservation and Recovery Act (RCRA). Dry materials may be landfilled or recycled in accordance with local, state, and federal regulations. If materials have become contaminated with other substances, dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION:

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	-	Non-Regulated Material, Solid	-	-
ERG No.:	N/A			

15. REGULATORY INFORMATION: No data available

16. OTHER INFORMATION:

HMIS INFORMATION:	HEALTH:	1	FLAMMABILITY:	0	PHYSICAL HAZARD:	0	PROTECTIVE: B
NFPA INFORMATION:	TOXICITY:	1	FIRE:	0	REACTIVITY:	0	SPECIAL: N

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