

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 12/12/97
Product Name: **SODIUM TRIPOLYPHOSPHATE**
Common Name: pentasodium triphosphate, STPP, STP, Polysorb
CAS No.: 7758-29-4

SECTION 2: HAZARDOUS INGREDIENTS:

Product is not considered hazardous by known governmental definitions. However, continuous contact may cause skin irritation. Minimally to moderately irritating to unwashed eyes and minimally to mildly irritating to washed eyes in rabbits. Skin irritation from continuous contact has been reported during manufacturing when protective measures for contact or personal hygiene procedures are not followed. Human industrial experience has shown no significant inhalation hazard or skin irritation when exposures are properly controlled. Exposure monitoring indicates that the amount of respirable dust in the product is low. There have no medical conditions reported as being aggravated by exposure.

SECTION 3: PHYSICAL DATA

Appearance and Odor:	white granules or white powder, no odor
Boiling point:(760 mmHg)	over 1000°C
Vapor Pressure (mmHg):	non-volatile
Specific Gravity (Water = 1):	bulk density 0.5-1.2 g/mL
Solubility in water:(by weight)	13% @ 25°C
Melting Point:	622°C
Vapor Density:	n/a
pH (1% solution)	10

SECTION 4: FIRE AND EXPLOSION DATA

Flash point:	non combustible
Flammable limit:	n/a
Extinguishing Media:	n/a
Fire Fighting Procedures:	none

SECTION 5: REACTIVITY DATA

Stable <u> X </u>	Unstable <u> </u>	
Conditions to Avoid:		none
Incompatibilities:		none
Hazardous Decomposition or byproducts:		none
Hazardous Polymerization:		will not occur

SECTION 6: HEALTH HAZARD DATA

inhalation, LC50 rat (4 hr): > 0.39 mg/L, no significant hazard

ingestion, LD50 rat: 285 mg/kg

Product is not carcinogenic, genotoxic, or teratogenic. Chronic exposure to very high levels of this product produces kidney damage and impaired bone development in laboratory animals. Is listed as a GRAS food additive by the US FDA.

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: Material should be swept up for salvage or disposal

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Disposal:

applications.

recycle for other uses. May be disposed of in
regulations.

Material does not present a danger or hazard for disposal. Except for food

Salvage and return to container, process or
landfills according to applicable

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SECTION 8: FIRST AID PROCEDURES

Eyes: Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

Skin: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

Ingestion: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with a finger or by giving syrup of ipecac. Never induce vomiting or give anything by mouth to an unconscious person. See a medical doctor.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

May result in eye and skin irritation. Flush eyes with water or off skin if contact occurs. Should be stored in a clean dry area to maintain product quality and to prevent possible contamination by other chemicals.

SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: Severe agitation or dispersion into work environment may require enclosure of the process and local exhaust ventilation at the source to prevent release into air.

Eye Protection: Wear chemical goggles, when airborne dust expected

Protective Gloves: impervious gloves with continuous contact

Respiratory Protection: approved dust respirator if release of product into work area is expected

Other Protective Gear: long sleeve work shirt

SECTION 11: TRANSPORT INFORMATION

DOT classification: N/A

DOT pictograms:

SECTION 12: ECOLOGICAL INFORMATION

Inorganic phosphate in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability is not applicable to inorganic compounds.

96hr LC50 > 100 mg/L, non-toxic (rainbow trout, inland silversides and mysid shrimp)

48 hr EC50 > 100 mg/L, non-toxic (daphnia magna)