

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Tri Sodium Phosphate

TR100-00

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER: Same as above
PREPARED BY: Production Department
VERSION DATE: 01-Aug-16
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Not Available **CHEMICAL FORMULA:** Not Applicable
MOLECULAR WEIGHT: Not Applicable **MATERIAL USE:** Please Refer to technical literature
SYNONYMS: 12-Hydrate; Phosphoric Acid, Trisodium Salt, Dodecahydrate.

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Trisodium Phosphate	60-100	7601-54-9	2000 mg/kg	N.Av.	N.Av.
Dodecahydrate	N.Av.	10101-89-0	N.Av.	N.Av.	N.Av.

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: Causes severe eye irritation. May cause corneal injury. Aqueous, highly alkaline solutions may produce caustic burns.

Skin: Causes skin irritation. May cause irritation, redness, pain and tissue injury. Extent of damage depends on duration of contact. More serious effects may occur if the skin is moist. Aqueous, highly alkaline solutions may produce caustic burns.

Inhalation: Causes irritation of the lungs and respiratory tract. Coughing, chest pains, and breathing difficulty may occur. Behaves as a moderately strong alkali; intense exposure may result in the destruction of mucous membranes. May cause asthmatic bronchitis, chemical pneumonitis, or pulmonary edema.

Ingestion: Causes digestive tract irritation. Causes vomiting, nausea, and diarrhea. May cause mild burning of mouth, throat, and stomach. Its alkaline nature may injure the esophagus and digestive tract. Aqueous, highly alkaline solutions may produce caustic burns.

SECTION 04: FIRSTAID

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Inhalation, Acute: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to physician: Treatment based on sound judgment of physician and individual reactions of patient.

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE? No
IF YES, UNDER WHICH CONDITIONS?
FLASH POINT (TCC) (C): Not Available
FLAMMABLE LIMITS: **LEL(% BY VOL.):** Not Available **UEL(% BY VOL.):** Not Available
AUTO IGNITION TEMPERATURE (C) Not Available
EXTINGUISHING MEDIA Use DRY chemicals, CO2, alcohol foam or water spray.
SPECIAL PROCEDURES: Fire fighters should wear full protective clothing, including self-contained breathing equipment.
HAZARDOUS COMBUSTION PRODUCTS: Not Available
UNUSUAL FIRE AND EXPLOSION HAZARDS Not Available
SENSITIVITY TO STATIC DISCHARGE Not Available
SENSITIVITY TO MECHANICAL IMPACT: Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Personal Precautionary Measures: Wear appropriate protective equipment.
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.
Procedure for Clean Up: Ventilate area. Scoop up or vacuum up and place in an appropriate closed container.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Storage Requirements

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE: Appropriate chemical resistant gloves should be worn.
RESPIRATOR/TYPE: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.
EYE/TYPE: Chemical goggles; also wear a face shield if splashing hazard exists
OTHER/TYPE: Ensure that eyewash stations and safety showers are proximal to the work-station location.
ENGINEERING CONTROL Not Av

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE/APPEARANCE:	Crystalline Solid.		
ODOUR:	Odourless	ODOUR THRESHOLD:	N. Av.
VAPOUR PRESSURE (mm Hg @ 20C):	N. Av.	VAPOUR DENSITY (Air=1):	N. Av.
EVAPORATION RATE (Ether = 1):	N. Av.	SPECIFIC GRAVITY:	1.62
BOILING POINT (C):	Decomposes.	FREEZING POINT (C)	73.3 - 76.7°C
Ph (% SOLUTION):	strong alkaline.	% VOLATILE (WT):	0
SOLUBILITY IN WATER (% W/W)			

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE? Stable
IF NO, UNDER WHICH CONDITIONS?

INCOMPATIBILITY WITH OTHER SUBSTANCES

IF YES, WITH WHICH ONES: Avoid excessive heat, open flames and all ignition sources. Reacts violently with water and acids to liberate heat.

SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS

HAZARDOUS DECOMPOSITION PRODUCTS: Sodium oxide. Oxides of phosphorus.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL

LC 50 OF MATERIAL, SPECIES AND ROUTE

LD 50 OF MATERIAL, SPECIES AND ROUTE

CARCINOGENICITY OF MATERIAL

REPRODUCTIVE EFFECTS:

IRRITANCY OF MATERIAL

SENSITIZING CAPABILITY OF MATERIAL

SYNERGISTIC MATERIALS

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION Class 0, NON-REGULATED

UN NUMBER:

PACKING GROUP:

Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION E
E CORROSIVE MATERIAL

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

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SOURCES: Supplier MSDS

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