IDENTITY: TC-58M

SECTION I

Manufacturer's Name: CASCADE WATER SERVICES, Inc.
Address: 113 BLOOMINGDALE ROAD, HICKSVILLE, NY 11801
Emergency Telephone Number: 800-424-9300
Telephone Number for Information: 516-932-3030
Date Prepared: 8-30-04

SECTION II  Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Names):
Trisodium Phosphate      CAS# 10101-89-0
Potassium Carbonate      CAS# 584087

SECTION III  Physical/Chemical Characteristics

Boiling Point: NA
Specific Gravity (H2O=1): Bulk density 0.9g/ml
Vapor Pressure (mm Hg.): Non-volatile
Melting Point: 75 C, -4H2O@ 95 C
Vapor Density (AIR=1): Non-volatile
Evaporation Rate (Butyl Acetate=1): Non-volatile
Solubility in Water % by WT: 33 @25 C
Appearances and Odor: White crystals, no odor

SECTION IV  Fire and Explosion Hazard Data

Flash Point (Method Used): Non combustible
Flammable Limits: NA     LEL: NA     UEL: NA
Extinguishing Media: NA
Special Fire Fighting Procedures: NA

NA - not applicable     NE - not established
Unusual Fire and Explosion Hazards: NA

SECTION V  Reactivity Data

Stability: Stable: X  Unstable: 

Conditions to Avoid: None

Incompatibility (Materials to Avoid): None

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: May Occur:  Will Not Occur: X

Conditions to Avoid: None

Sensitivity to Mech Impact: None

Sensitivity to Static Discharge: None

SECTION VI  Health Hazard Data

Route(s) of Entry: Inhalation: X  Skin: X  Ingestion: X

Eye Contact: Extremely irritating to unwashed eyes; moderately irritating to washed eyes (rabbit). These data are for Trisodium Phosphate Anhydrous. Source: FMC Report I86-0926  Date: 1987

Skin Contact: Minimally irritating at 300 and 20 mg/kg (rabbit). These data are for Trisodium Phosphate Anhydrous. Source: FMC Report I87-0956  Date: 1987

Skin Absorption: Practically nontoxic, LD 50 greater than 300 mg/kg (rabbit). These data are for Trisodium Phosphate Anhydrous. Source: FMC Report I87-0956  Date: 1987


Exposure Limits: None promulgated

Health Hazards (Acute and Chronic): ACUTE: Inhalation of heavy dust may severely irritate nose and throat. Ingestion may injure mouth, throat, and gastrointestinal tract. Contact with eyes produces extreme irritation. CHRONIC: ( EFFECTS CONSIDERED INCLUDE: Sensitivities, Carcinogenicity, Teratogenicity, Mutagenicity, Synergistic Products, and any medical conditions generally recognized as being aggravated by exposure). Although no long term human studies have been reported, there are no reported chronic effects that warrant control beyond that required to avoid irritation from airborne dust.
Carcinogenicity:
NTP: NA    IARC Monographs: NA

Signs and Symptoms of Exposure: Inhalation of heavy dust may severely irritate nose and throat. Ingestion may injure mouth, throat, and gastrointestinal tract. Contact with eyes produces extreme irritation.

Emergency and First Aid Procedures:

EYES: Flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids intermittently. See an Ophthalmologist.

SKIN: Wash with water. If irritation occurs and persists, call a physician.

INHALATION: Remove from exposure. For breathing difficulty or discomfort, obtain medical attention.

INGESTION: Rinse mouth with water, give water to cause particles to dissolve. DO NOT CAUSE VOMITING. Call a physician.

DECONTAMINATION PROCEDURE: Wash with soap and water.

NOTES TO PHYSICIAN: Strongly alkaline, may remove sebaceous oils leaving skin unprotected and may cause chemical burns. Accessible exposed tissues should be flushed thoroughly with water, and any corneal burns warrant consultation of an Ophthalmologist. Ingestion may result in nausea, vomiting, and burns, especially of the esophagus. Attempts to neutralize ingested material with acids is not recommended. This may cause excess heat and gas production which can increase the risk of perforation. Dilution may do likewise, but when the dry material is ingested, adherence of particles to the Esophageal Mucosa may assure perforation so that immediate drinking of cold water or milk is advised. Burns of the esophagus and/or stomach sufficient to lead to perforation and/or stricture formation may occur without Oropharyngeal burns. Accordingly, most authorities recommend limited Esophagoscopy sufficient to determine if deep and/or circumferential burns are present, because they are most likely to result in Esophageal Stenosis. Prevention of the latter is controversial, though most authorities favor early Corticosteroid and/or Prophylactic Dilation Therapy.

SECTION VII  Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Material should be swept up for salvage or disposal.

Waste Disposal Method: If material cannot be salvaged, a method of disposal is in a landfill in accordance with all local, state and federal regulations.

Precautions to be Taken in Handling and Storing: Use NIOSH/MSHA approved respiratory protection and chemical goggles if airborne dust is expected.

Other Precautions: Store in a dry area, for product quality assurance.
SECTION VIII Control Measures

Respiratory Protection (Specify Type): NIOSH/MSHA approved respiratory protection if airborne dust is expected.

Ventilation (Local/Mechanical/Special): Use general room ventilation or local exhaust ventilation in processes or handling when airborne dust is expected to be released into the work environment.

Protective Gloves: No special requirements

Eye Protection: Chemical goggles if airborne dust is expected

Other Protective Clothing or Equipment: No special requirements

Work/Hygienic Practices: Good hygienic practices

SECTION IX Transportation Data

DOT Proper Shipping Name: Sodium Phosphate, Tribasic
DOT Classification: ORM-E
DOT Labels: Not required
DOT Marking: Sodium Phosphate, Tribasic NA 9148 ORM-E
DOT Placard: Not required

UN Number: NA 9148

Hazardous Substance/RQ: 5000 lbs. (2270 KG)

49 STCC Number: 4966383

Emergency Accident Precautions and Procedures: Material is strongly basic (alkaline); take care to avoid contact with product, which may cause irritation, particularly to the eyes.

Precautions To Be Taken In Transportation: None
Type Packages: None
Other Shipping IDs: None

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL IN ANY PROCESS. THE INFORMATION SET FORTH HEREIN IS FURNISHED FREE OF CHARGE AND IS BASED ON TECHNICAL DATA THAT NORTECH WATER & ENERGY, INC. BELIEVES TO BE RELIABLE. IT IS INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL AND AT THEIR OWN DISCRETION AND RISK. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. NOTHING HEREIN IS TO BE TAKEN AS A LICENSE TO OPERATE UNDER OR A RECOMMENDATION TO INFRINGE ANY PATENTS.