

-----MATERIAL SAFETY DATA SHEET-----

Control Wizard Products

1500 ppm/442 Calibrating Conductivity Standard

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-----SUBSTANCE IDENTIFICATION-----

SUBSTANCE: -----Mixed Sodium Salt Aqueous Solution, Dilute

Trade names/synonyms: This material is also known as 442 Conductivity Standard, at all levels. This material is also known as 1500 Conductivity Standard/442, at all levels. This material is also known by various catalog numbers: NT720,NT725.

Cercla ratings (scale 0-3): health=0 fire=0 reactivity=0 persistence=0

Nfpa ratings (scale 0-4): health=0 fire=0 reactivity=0

-----COMPONENTS AND CONTAMINANTS---

Component: Sodium Bicarbonate CAS# 7647-14-5 percent: <1.0

Component: Sodium Sulfate CAS# 7757-82-6 percent: <1.0

Component: Sodium Chloride CAS# 144-55-8 percent: <1.0

Component: water CAS# 7732-18-5 percent: 90+

Other contaminants: none

Exposure limits: No occupational exposure limits established by osha, acgih or niosh.

-----PHYSICAL DATA-----

Description: clear, colorless liquid.

Approx. boiling point: 212°F (100°C). **Approx. melting point:** 32°F (0°C)

Vapor pressure: 14 torr @20°C **Evap. Rate: (ether=1)** >1

pH 6-8 Solubility in water: complete **Vapor density:** 0.7 (H₂O)

-----FIRE AND EXPLOSION DATA-----

Fire and explosion hazard: no fire hazard when exposed to heat or flame.

Flash point: not applicable

-----TOXICITY-----

sodium chloride, sodium bicarbonate and sodium sulfate

Carcinogen status: none.

Local effects: irritant - skin, eye.

Acute toxicity level: no data available.

Target effects: no data available.

-----HEALTH EFFECTS AND FIRST AID-----

INHALATION: SODIUM CHLORIDE, SODIUM BICARBONATE AND SODIUM SULFATE
ACUTE EXPOSURE - MAY CAUSE IRRITATION. CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE IRRITATION. FIRST AID - REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION.
SKIN CONTACT: SODIUM CHLORIDE, SODIUM BICARBONATE AND SODIUM SULFATE
ACUTE EXPOSURE - MAY CAUSE IRRITATION. CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS. FIRST AID - REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY, WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES).

EYE CONTACT: SODIUM CHLORIDE, SODIUM BICARBONATE AND SODIUM SULFATE
ACUTE EXPOSURE-DIRECT CONTACT MAY CAUSE IRRITATION, REDNESS AND PAIN. CHRONIC EXPOSURE-REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUNCTIVITIS FIRST AID - WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION SODIUM CHLORIDE, SODIUM BICARBONATE AND SODIUM SULFATE.
ACUTE EXPOSURE - MAY CAUSE NAUSEA, VOMITING AND DIARRHEA. CHRONIC EXPOSURE - NOT REPORTED TO OCCUR IN HUMANS FIRST AID - IF VICTIM IS CONSCIOUS, IMMEDIATELY GIVE 2-4 GLASSES OF WATER, AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT, GET MEDICAL ATTENTION IMMEDIATELY.

-----REACTIVITY-----

Reactivity: stable under normal temperatures and pressures.
Incompatibilities: none known. **Decomposition:** none known. **Polymerization:** none known.

-----STORAGE AND DISPOSAL-----

Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the district director of the environmental protection agency.
Storage conditions to avoid: store away from incompatible substances.
Water spills: The California safe drinking water and toxic enforcement act of 1986 (prop 65) prohibits contaminating any known source of drinking water with substances known to cause cancer and/or reproductive toxicity.

Occupational spill: Flush with water and mop up.

-----PROTECTIVE EQUIPMENT-----

Special equipment not needed. Due caution in handling any chemical solution is recommended.