

MATERIAL SAFETY DATA SHEET

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1.PRODUCT IDENTIFICATION

CATALOG NO.: R-0981
PRODUCT NAME: Phosphate Reagent #2
CHEMICAL FAMILY: Inorganic salt/polyhydric alcohol solution

2.INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Stannous chloride	7772-99-8	<1	Irritant
Glycerol	56-81-5	to 100	Irritant

3.PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid **APPEARANCE:** Viscous, colorless **ODOR:** Slight
BOILING PT (F): 554 (dec) **pH:** ND **SPECIFIC GRAVITY:** 1.25
VAPOR PRESSURE (mm Hg): 0.0002 **VAPOR DENSITY (AIR=1):** 3.17
PERCENT VOLATILE BY VOLUME: 1 **SOLUBILITY IN WATER:** Soluble

4.FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: 350 F **METHOD:** Open cup
FLAMMABLE LIMITS: LEL: 0.9% UEL: NA
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam
SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and full-protective clothing
FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit carbon dioxide and toxic fumes of chlorine and carbon monoxide.
NFPA CODE: Health: 1 Flammability: 1 Reactivity: 0 Specific: NA
CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with strong oxidizers may cause explosion.

5.HEALTH HAZARD DATA

INGREDIENT: Glycerol
TOXICITY: LD50(oral-rat): 12,600 mg/Kg **TDLo (oral-hmn):** 1428 mg/Kg
PEL: 15 mg/m3 (mist, total dust) **TLV:** 10 mg/m3 (mist)
STEL: NE

INGREDIENT: Stannous chloride
TOXICITY: LD50(oral-rat): 700 mg/kg
PEL: 2 mg/m3 (as tin) **TLV:** 2 mg/m3 (as tin)
STEL: NE

5. HEALTH HAZARD DATA - continued

ROUTE(S) OF ENTRY: Inhalation X Ingestion X Skin X

TARGET ORGAN(S): Kidneys

CARCINOGENICITY: NTP No IARC No OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Irritant.

SKIN: Irritant. May be harmful if absorbed through the skin.

INGESTION: Irritant. May cause headache, gastrointestinal irritation, nausea, vomiting, dizziness, diarrhea, dry mouth, or increased thirst.

INHALATION: Irritant. May be irritating to mucous membranes and upper respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, and respiratory conditions.

6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat.

HANDLING: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

STORAGE: Cool, dry area. Avoid direct sunlight.

7. EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes.

Call physician. Wash skin thoroughly with soap and water.

INGESTION: Give large amounts of water or large amounts of water with milk of magnesia. Contact physician. DO NOT INDUCE VOMITING.

INHALATION: Remove to fresh air. Contact physician.

8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Absorb with vermiculite or other inert material.

Containerize for later disposal.

DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable

ND = Not determined

NE = Not established

This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.

DATE PREPARED: September 2001