MATERIAL SAFETY DATA SHEET 1. 1986

C.A.S. No. Unit(s) Size Chemical Synonyms Formula Product SECTION 100. 500 grams, Na2S203-5H20 Sodium Thiosulfate, Pentahydrate SODIUM THIOSULFATE, PENTAHYDRATE 10102-17-7 2.5 <u>ج</u> HAZARD RATING LEAST SLIGHT Day 716-226-6177 Night 716-334-4222 CHEMTREC 800-424-9300 MODERATE မ နှ 000984

Reactivity 1 Health 1 Fire 0

EXTREME

Principal Hazardous Component(s) HAZARDOUS INGRED IENTS OF MIXTU %

WARNING! HARMFUL IF SWALLOWED Sodium Thiosulfate, Pentahydrate 100% None established TLV Units

Vapor Density (Air=1) |5.47 Boiling Point (°F) Vapor Pressure (mm Hg) Negligible as solid Melting Point (°F) SECTION III PHYSICAL DATA Rapidly heated at 48°C Loses water above 100°C Evaporation Rate Percent Volatile by Volume (%) Specific Gravity (H,0 = 1)

Solubility in Water 200 grams per 100 ml water at 20°C.

Appearance and Odor Clear to white crystals or granules with mo odor-

Extinguisher Media SECTION Method Used) IV HIRLE AND EXPLOSION HAZARD DAYA Non-flammable (NA) Flammable Limits in Air % by Volume

Use any media suitable for extinguishing supporting fire

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus. Use water spray to keep containers cool, and to knock down fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

High temperatures may cause evolution of toxic Sulfur-dioxide (SO2) or Hydrogen sulfide gas (${\rm H}_2{\rm S}$).

D.O.T. NON-REGULATED

fiel

FREY SCIENTIFIC

905 HICKORY LANE MANSFIELD OHIO 44905 MSDS No. Effective Date

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established.

Effects of Overexposure

(ACGIH 1983-84).

purging. \underline{SKIN} : Dust or mist may cause trritac irritation from repeated or prolonged contact.

may irritate or burn eyes.

***OPPOSUTE**

INHALATION: Of product dust or mist, may irritate respiratory tract.

INGESTION: May cause irritation of the gastrointestinal tract and

Dust or mist may cause irritation from prolonged contact. Aqueous solutions may cause EYES: Oust or mist may irritate or burn eyes.

Solutions

Emergency and First Aid Procedures

wash with soap and water. INHALATION: <u>EYES:</u> Flush eyes with plenty of water for at least 15 minutes. irritation persists, get medical attention. <u>SKIN:</u> Flush skin. tion. <u>SKIN:</u> Flush skin, or Remove to fresh air. If short ۹ =

of breath, give oxygen, provided a qualified operator is available. If symptoms persist, get medical attention. <u>INGESTION:</u> Promptly give two to four glasses of water and induce vomiting by touching finger to back of throat. Call physician.

SECTION VI REACTIVITY DATA

Stability Stable (Materials to avoid) ncompatibility Unstable Acids: trong oxidizers: Causes vigorous exothermic reaction Release sulfur dioxide gas. Water-reactive materials such as sodium: Conditions to Avoid High temperatures (above Yields sulfur dioxide gas and hazardous residue. High temperatures (above 100° C):

cause strong exothermic reaction with the hydrate.

Hazardous
Decomposition Products Sodium sulfide residue: Flammable, dangerous, fire ri strong irritant to skin and tissue, incompatible with Suifur dioxide gas: Toxic, corrosive and an oxidizer.

Hazardous Polymerization May Occur Will Not Occur Conditions to Avoid

Non-volatile (NA)

1.69 at 20°C Non-volatile (NA)

SECTION VII SPITEORITEAK PROCEDU

Not applicable

Steps to be taken in case material is released or spilled

Sweep up and place in a suitable container

Waste Disposal Method

Dispose of in an approved incinerator equipped with an afterburner and scrubber. Dissolve in water and flush to sewer with copious amounts

Discharge, treatment, or disposal may be subject to federal, state, or local laws

SECTION VIII SPECIAL PROTECTION INFORMATION

Ventilation Local Exhaust
Mechanical (General) Recommended wear a NIOSH-approved respirator Special

Other Protective **Protective Gloves**

Goggles, smock, apron, proper gloves, eye wash station. Eye Protection

Chemical safety glasses.

Precautions to be Taken in Handling and Storing (eep container tightly closed when not in use.

SECTION IX SPECIAL PR

dust or mist. Use with adequate ventilation. Avoid contact with eyes, skin, clothing. Store in a cool, dry place away from acids or oxidizers. Avoid breathing

Other Precautions

Read label on container before using. Contact with acids releases irritating sulfur dioxide

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For laboratory use only. Not for drug, food or household use. Keep out of reach of children

Rev. No. //a/

|Date 1/12/87 |Approved (Myardy) (L.) Chemical Safety

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