\*\*SODIUM THIOSULFATE PENT

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MATERIAL SAFETY DATA SHEET

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# SUBSTANCE IDENTIFICATION

SUBSTANCE: \*\*SODIUM THIOSULFATE PENTAHYDRATE\*\*

CAS-NUMBER 10102-17-7

TRADE NAMES/SYNONYMS: AMETOX; ANTICHLOR; I THIOSULFURIC ACID, HYPO; SODIUM HYPOSULFITE; SODOTHIOL; SULFOTHIORINE; DISODIUM SALT, PENTAHYDRATE; S-445; S-474; ACC21715

CHEMICAL FAMILY: INORGANIC SALT

MOLECULAR FORMULA: NA2-52-03.5H20 MOL MT: 248.20

CERCLA RATINGS (SCALE 0-3): HEALTH=2 FIRE=0 REACTIVITY=0 PERSISTENCE=0

COMPONENTS AND CONTAMINANTS

COMPONENT: SODIUM THIOSULFATE PENTAHYDRATE

PERCENT:

OTHER CONTAMINANTS: NONE

NONE ESTABLISHED

# PHYSICAL DATA

DESCRIPTION: COLORLESS, ODORLESS, MONOCLINIC CRYSTALS. COOLING TASTE

AND BITTER AFTER TASTE BOILING POINT: 212 F LOSES H20

MELTING POINT: 118 П 84) C SPECIFIC GRAVITY: 1.7

P#:

6.5-8.0

"SOLUBILITY IN WATER: SOLUBLE, DECOMPOSES

#### FIRE AND **EXPLOSION** DATA

FIRE AND EXPLOSION HAZARD: NEGLIGIBLE FIRE AND NEGLIGIBLE HEAT OR FLAME. **EXPLOSION HAZARD** IN DUST FORM WHEN **EXPOSED** 

FIREFIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, WATER
(1984 EMERGENCY RESPONSE GUIDEBOOK, SPRAY DOT P OR FOAM 5800.3).

FOR LARGER FIRES, USE WATER SPRAY, I FOG OR ALCOHOL 1

FIREFIGHTING: NO ACUTE HAZARD. VAPORS OR DUSTS; MOVE CONTAINER FROM FIRE KEEP UPWIND. AREA Ħ POSSIBLE. AVOID BREATHING

#### TOXICITY

300 MG/KG/7 DAYS ORAL-HUMAN TDLO; 5600 MG/KG INTRAPERITONEAL-MOUSE LD50; 3000 MG/KG INTRAVENOUS-DOG LDLO; CARCINOGEN STATUS: NONE. SODIUM THIOSULFATE PENTAHYDRATE IS MODERATELY TOXIC BY INTRAVENOUS ROUTES POISONING AFFECTS THE BLOOD. LARGE ORAL DOSES HAVE A CATHARTIC ACTION.

#### HEALTH EFFECTS AND FIRST AID

INHALATION: IRRITANT. ACUTE EXPOSURE- MAY CAUSE RESPIRATORY IRRITATION AND COUGHING.

CHRONIC EXPOSURE- MAY CAUSE MUCOUS MEMBRANE IRRITATION.

FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP AFFECTED PERSON I REST. GET MEDICAL ATTENTION. WARM AND A

SKIN CONTACT: IRRITANT. ACUTE EXPOSURE-

CONTACT MAY CAUSE IRRITATION

CHRONIC EXPOSURE- REPEATED OR PROLONGED CONTACT MAY CAUSE DERMATITIS.

TRST 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). GET MEDICAL ATTENTION.

"EYE CONTA IRRITANT. CONTACT:

ACUTE EXPOSURE-DUST \*\*SODIUM THIOSULFATE PENT MAY CAUSE IRRITATION, REDNESS AND PAIN 03

CHRONIC EXPOSURE- MAY CAUSE CONJUNCTIVITIS.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION. OCCASIONALLY REMAINS

INGESTION:
IRRITANT.
ACUTE EXPOSURE-LARGE DOSES MAY CAUSE IRRITATION, NAUSEA, ΑND DIARRHEA.

FIRST AID- IF VICTIM IS CONSCIOUS, AND INDUCE VOMITING BY TOUCHING I ATTENTION IMMEDIATELY. FINGER TO BACK OF 2 TO 4 G GET MEDICAL OF WATER,

## REACTIVITY

REACTIVITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES: WHEN MIXED WITH SODIUM NITRITE AND EVAPORATED TO DRYNESS, A VIOLENT EXPLOSION OCCURED. AN EXPLOSION ALSO OCCURS WHEN MIXED AND HEATED WITH POTASSIUM NITRATE OR SODIUM NITRATE. IT IS ALSO INCOMPATIBLE WITH HALOGENS, ACIDS, LEAD, SILVER SALTS, AND MERCURY.

DECOMPOSITION:
THERMAL DECOMPOSITION MAY RELEASE TOXIC OXIDES 유 SULFUR.

POLYMERIZATION:
HAZARDOUS POLYMERIZATION HAS
TEMPERATURES AND PRESSURES. NOT BEEN REPORTED O. OCCUR UNDER NORMAL

AVOID HEATING SUBSTANCES. TO DECOMPOSITION AND CONTACT WITH 9R STORAGE HIIM INCOMPATIBLE

3

OCCUPATIONAL SPILL:
WHEN MATERIAL NOT INVOLVED IN FIRE:
DO NOT ALLOW MATERIAL TO CONTAMINATE SEWERS
BUILD DIKES FOR CONTAINMENT OF SPILL FLOW.
SWEEP UP AND PLACE IN A SUITABLE CONTAINER ( AND WATER SOURCES

(FIBERBOARD), FOR LATER DISPOSAL.

### PROTECTIVE EQUIPMENT

VENTILATION: PROCESS ENCLOSURE,

LOCAL EXHAUST, 유 GENERAL DILUTION VENTILATION SYSTEM.

( "RESPIRATOR: HIGH LEVELS-DUST MASK.

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FIREFIGHTING-SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE-PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

CLOTHING: PROTECTIVE CLOTHING THIS SUBSTANCE.

NOT REQUIRED. AVOID REPEATED OR PROLONGED CONTACT WITH

GLOVES: PROTECTIVE GLOVES ARE NOT REQUIRED BUT RECOMMENDED.

EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF OR
EYE CONTACT WITH THIS SUBSTANCE. DUST-RESISTANT SAFETY GOGGLES

TO PREVENT

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