

ISOLYSER

SMS® SHARPS MANAGEMENT SYSTEM

MATERIAL SAFETY DATA SHEET MEDICAL EMERGENCIES: (770) 806-9898

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: SRS 800, 2400, SMS 1000, 2400, 4000, 10000; BMS 15000; Demo Sample.

SYNONYM: None

CHEMICAL FAMILY: Solution: Water Based Monomer Solution Catalysts: Inorganic Salts and Oxides

FORMULA: Proprietary Mixture

CAS NUMBER: None Assigned

DOT SHIPPING NAME: None Assigned

DOT HAZARD CLASS: NA

UN/NA NUMBER: None Assigned

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING:

Health = 2 Flammability = 1 Reactivity = 2 Protective Equipment = F

SECTION II - HEALTH SAFETY ALERT

CAUTION: Harmful if inhaled, ingested, or absorbed through skin. May cause eye or skin irritation. Avoid prolonged contact. Read MSDS before using product. Catalysts also corrosive.

NMA is listed as a Carcinogen under California Proposition 65.

SECTION III - HEALTH HAZARD INFORMATION

EYE AND SKIN: Solution: Direct contact may cause moderate irritation. Material may penetrate skin and cause nausea with prolonged or repeated contact. Catalyst: APS may permanently damage the eye causing blindness, be severely irritating to skin causing potentially permanent damage, and penetrate intact skin causing internal organ damage. ZFS may also cause irritation.

INHALATION: Solution: May produce tissue irritation, headaches, drowsiness, or unconsciousness. Catalyst: ZFS may cause transient irritation of the airways. If ZFS is heated and fumes generated (not consistent with anticipated product use), fever and reversible symptoms resembling an upper respiratory tract infection could occur. APS inhalation may be fatal due to severe respiratory tract inflammation.

INGESTION: May cause gastric irritation. One or more ingredients may be toxic if swallowed Catalyst: ZFS may also produce mouth and throat irritation, nausea, vomiting and systemic illness. Ingestion of APS may be life-threatening due to tissue corrosion .

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes. Do not use chemical agents to neutralize. Seek medical aid.

SKIN CONTACT: Flush with water for 15 minutes. Remove and clean contaminated clothing. Seek medical aid.

INHALATION: Remove from exposure. Administer artificial respiration and oxygen if necessary. Seek medical aid.

INGESTION: Call Chemtrec at 1-800-424-9300 and seek medical aid.

SECTION V - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT & METHOD: Not Applicable **AUTO IGNITION TEMP:** Not Established

FLAMMABLE LIMITS (% VOLUME/AIR) LOWER: No Data **UPPER:** No Data

EXTINGUISHING MEDIA: Not combustible under expected conditions of use. Water spray if fire occurs in area.

FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus to fight large fires.

FIRE/EXPLOSION HAZARDS: Emits toxic fumes under fire conditions. Contact with powdered metals causes fire.

SECTION VI - SPILL, LEAK, AND DISPOSAL INFORMATION

SPILL OR LEAK PROCEDURES: Solution: Absorb with paper, vermiculite, or floor absorbent.

Catalyst: Sweep up using broom and dust pan.

WASTE DISPOSAL: All waste disposal must be done in accordance with applicable regulations.

CODE: 03/16/99 **REPLACES:** 06/08/98

SMS - No. 03/16/99 Page 2

SECTION VII - RECOMMENDED OCCUPATIONAL EXPOSURE

LIMIT/ HAZARDOUS INGREDIENTS

EXPOSURE LIMIT (Product): Solution: None Established. **Catalyst:** PEL is 5mg/m³ for total dust.

INGREDIENTS CAS NO. PERCENT EXPOSURE

Solution

N-Methylolacrylamide (48%) 924-42-5 < 60 1 mg/m³ [manufacturer's]

Sodium Nitrite 7632-00-0 < 2.0 None Established

Benzotriazole 95-14-7 < 1.0 None Established

Catalyst

APS, Ammonium persulfate (Red) 7727-54-0 100% None Established

ZFS, Zinc formaldehyde 24887-06-7 < 90% *10 mg/m³ total dust

sulfoxylate (Yellow) OSHA PEL, ACGIH TLV

*APS and ZFS contain sodium sulfate and Zinc (as component of ZFS) which may be subject to the reporting requirements of Section 313, Title III of SARA. Sodium nitrite may be subject to the reporting requirements of Section 313, Title III of SARA.

SECTION VIII - PERSONAL PROTECTION INFORMATION

EYE PROTECTION: Dust-tight and chemical resistant goggles.

SKIN PROTECTION: Chemical resistant gloves.

RESPIRATORY PROTECTION: NIOSH/OSHA air purifying or air-line respirators when dust levels exceed PEL.

VENTILATION: Use in a well ventilated area.

SECTION IX - PERSONAL HANDLING INSTRUCTION

HANDLING: Avoid contact with liquid, powders, and vapors. Use appropriate personal hygiene.

STORAGE: Keep container and catalyst packs closed and away from other chemicals, heat, spark or open flame. Do not freeze. Catalyst is moisture sensitive and may generate heat when wet.

OTHER: Not for internal use. Do not wear contacts without eye protection.

SECTION X - REACTIVITY DATA

CONDITION CONTRIBUTING TO INSTABILITY : Extreme temperatures, exposure to incompatible materials.

INCOMPATIBILITY: Oxidizing and reducing agents, strong acids or bases, peroxides, chloroformates, bisulfites, ammonia, cyanides, amines, copper, aluminum, and brass. Contact of finely powdered metals with catalyst may cause fire.

HAZARDOUS RXNS/ DECOMPOSITION PRODUCTS:Carbon monoxide, ammonia oxides of nitrogen and sulfur.

CONDITION CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Excessive heat.

SECTION XI - PHYSICAL DATA

Solution APS ZFS

BOILING POINT:NA NA NA

MELTING POINT:NA ND ND

VAPOR PRESSURE:NA NA NA

VAPOR DENSITY: NA NA NA

SOLUBILITY IN WATER:100% ND ND

SPECIFIC GRAVITY:1.0-1.05 1.980 1.460

VISCOSITY (30 °C):1.583 cpNANA

% VOLATILE BY VOL.: > 75 NA 0

pH:4.9 - 6.5 NA 4.2

EVAPORATION RATE:Equivalent to Water NA NA

APPEARANCE/ODOR:Clear liquid with mild odor. White powder/stale odor White powder/strong odor

SECTION XII - COMMENTS

No known ingredients which occur at greater than 1.0 % are listed as carcinogens by IARC Monographs on the Evaluation of the Carcinogenic Risk to Humans, the NTP Annual Report on Carcinogens, or OSHA 29 CFR 1910.1001-1047 Subpart Z Toxic and Hazardous Substances.

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NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, ISOLYSER Company makes no warranty with respect thereto and disclaims all liability from reliance thereon.