

## **ISOLYSER**

### **LTS-PLUS<sup>®</sup> LIQUID TREATMENT SYSTEM**

**MATERIAL SAFETY DATA SHEET MEDICAL EMERGENCIES: (662) 327-1863 / (800) 844-0988**

**Microtek Medical (An Isolyser Company)  
(662) 327-1863 / (800) 844-0988  
602 Lehmberg Road Columbus, MS 39702**

**CHEMTREC ASSISTANCE: (800) 424-9300**

### **SECTION I - PRODUCT IDENTIFICATION**

**PRODUCT NAME:** LTS-PLUS<sup>®</sup> 500, 1200, 1500, 2000, 3000

**SYNONYM:** None

**CHEMICAL FAMILY:** Cross-linked polyprotic resin

**FORMULA:** Sodium Polyacrylate 89.8% & Sodium Dichloro-S-Triazinetrione Dihydrate 10.2%  
(Available Chlorine 5.8%)

**CAS NUMBER:** None Assigned

**DOT SHIPPING NAME:** Fluid Waste Pickup

**DOT HAZARD CLASS:** Non-Hazardous

**UN/NA NUMBER:** None Assigned

### **HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING:**

**Health = 2      Flammability = 0      Reactivity = 1      Protective Equipment = B**

### **SECTION II - HEALTH SAFETY ALERT**

**CAUTION:** May cause skin and eye irritation. Dust may be irritating if inhaled. Surface subject to spills or dusting may become slippery when wet. Avoid prolonged or repeated contact with powder and solutions.

Do not use this product until MSDS has been read and understood.

### **SECTION III - HEALTH HAZARD INFORMATION**

**EYE:** Direct contact with resin granules can produce moderate to severe irritation.

**SKIN:** May produce irritation or drying on prolonged or repeated contact.

**INHALATION:** Prolonged or repeated inhalation may produce respiratory irritation, headache, nausea and dizziness. Severe overexposure may lead to disorientation, weakness and collapse with a drop in blood pressure.

**INGESTION:** Swallowing this product may lead to mouth and stomach irritation accompanied by burning pain, nausea, vomiting and diarrhea. SEE SECTION XII.

### **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:** Wipe or wash material from skin. Wash 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  
Not Applicable

**AUTO IGNITION TEMP:**

**FLAMMABLE LIMITS:** Not determined

**EXTINGUISHING MEDIA:** Water spray

**FIRE AND EXPLOSION HAZARDS:** Use NIOSH certified chlorine gas mask. Combustion can evolve carbon monoxide, carbon dioxide, chlorinated compounds, cyanogen and chlorinated oxides of nitrogen.

\* These data are applicable to chlorinated cyanurates, an ingredient of LTS-PLUS®.

### **SECTION VI - SPILL, LEAK, AND DISPOSAL INFORMATION**

**SPILL OR LEAK PROCEDURES:** Take up with pan and broom, wear gloves. For very large amounts, use personal respiratory protection and eye protection. Shut off sources of ignition. Evacuate area and guard against fire.

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

## SECTION VII - OCCUPATIONAL EXPOSURE

### LIMIT/ HAZARDOUS INGREDIENTS

**EXPOSURE LIMIT (Product):** Work place exposure limit 5 mg/m<sup>3</sup> (respirable; general dust)

HAZARDOUS INGREDIENTS PERCENT	CAS NO.	EXPOSURE	
chlorinated cyanurates - 1 ppm (Chlorine)	51580-86-0	< 15%	TLV

Identity of specific components of this mixture are proprietary.

## SECTION VIII - PERSONAL PROTECTION INFORMATION

**EYE PROTECTION:** Safety glasses.

**SKIN PROTECTION:** Rubber gloves.

**RESPIRATORY PROTECTION:** Effective Dust Mask

**VENTILATION:** Special ventilation not required for normal use.

## SECTION IX - PERSONAL HANDLING INSTRUCTIONS

**HANDLING:** Practice reasonable care and cleanliness. Keep container closed to avoid moisture pickup and **volatilization** of chlorine. Wash hands thoroughly after handling.

**STORAGE:** Store in cool, dry area. Eliminate source of ignition such as static discharge, open flames etc.

**OTHER:** Do not take internally. Wash exposed areas promptly and thoroughly after contact and before eating, drinking, use of tobacco products, or use of restrooms. Do not wear contacts without eye protection.

## SECTION X - REACTIVITY DATA

**CONDITION CONTRIBUTING TO INSTABILITY:** Material stable but can combust.

**INCOMPATIBILITY:** Oxidizing agents and oxidizable material, strong acids or alkali.

**HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, fluoro- and chloro- containing compounds, cyanogen, ammonia.

**CONDITION CONTRIBUTING TO HAZARDOUS POLYMERIZATION:** None.

## SECTION XI - PHYSICAL DATA

**BOILING POINT:** decomposes\*

**SPECIFIC GRAVITY:** 0.54 g/cm<sup>3</sup>

**VAPOR PRESSURE:** NA

**EVAPORATION RATE:** NA

**SOLUBILITY:** Insoluble in water

**pH (0.5 % in Saline):** 6.0-7.0

**APPEARANCE/ODOR:** Free-flowing crystalline to granular tan powder/Slight chlorine odor

\* These data are applicable to chlorinated cyanurates, an ingredient of LTS-PLUS<sup>®</sup>.

## SECTION XII - COMMENTS

Persons with a history of disease or illness involving the skin, eyes, respiratory tract or circulatory system may be at greater risk of developing adverse health effects from exposure to this product.

No known ingredients which occur at greater than 0.1% are listed as carcinogens by the 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.