

ISOLYSER
LTS[®]
LIQUID TREATMENT SYSTEM[®]

17-987-199C

MATERIAL SAFETY
DATA SHEET
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SECTION I — PRODUCT IDENTIFICATION

PRODUCT NAME: LTS 1200, LTS 1250, LTS 1500, LTS 2000,
LTS 3000, LTS 3100, LTS 22000, LTS 30000

SYNONYM: None

CHEMICAL FAMILY: Proprietary amphoteric copolymer with phenolic
derivatives

FORMULA: Formulated Mixture

CAS NUMBER: None Assigned

DOT PROPER SHIPPING NAME: Sanitizers, solid

DOT HAZARD CLASS: Non-Hazardous

UN/NA NUMBER: None Assigned

SECTION II — HEALTH SAFETY ALERT

CAUTION: May cause eye or skin irritation. Dust may be irritating if inhaled. Surfaces 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 AND SKIN: Direct contact with powder may cause moderate to severe irritation. Contact with
in-use dilutions may produce mild irritation.

INHALATION: Powder may produce a drying and irritation of the nose, throat and airways
following prolonged or heavy exposure.

INGESTION: Nausea, vomiting, diarrhea may occur following ingestion of the powder or in-use
dilutions. SEE SECTION XII — COMMENTS.

SECTION IV — EMERGENCY AND FIRST AID PROCEDURES

- EYE CONTACT:** Immediately flush with large amounts of water for at least 15 minutes. Do not attempt to neutralize with chemical agents. If irritation persists, seek medical aid.
- SKIN CONTACT:** Wipe or wash material from skin. Wash contaminated clothing before reuse. See a physician if irritation develops.
- INHALATION:** Remove from exposure. If breathing is stopped or difficult, administer artificial respiration and oxygen as necessary. Seek medical aid.
- INGESTION:** Give 1-2 glasses of milk or water to victim if conscious and alert. Induce vomiting or give 1-2 oz. (30-60g) of activated charcoal in water if victim is conscious and alert. If vomiting occurs, repeat treatment. Do not attempt to give anything by mouth to an unconscious person. Seek medical aid.

SECTION V — FIRE AND EXPLOSION HAZARD INFORMATION

- FLASH POINT & METHOD:** Not Applicable **AUTOIGNITION TEMP:** Not Determined
- FLAMMABLE LIMITS (%VOLUME/AIR) LOWER:** Not Applicable **UPPER:** Not Applicable
- EXTINGUISHING MEDIA:** Water spray; dry chemical, foam, carbon dioxide, or Halon.
- FIRE-FIGHTING PROCEDURES:** Use self-contained breathing apparatus for fires involving large amounts (cartons) of product.
- FIRE AND EXPLOSION HAZARDS:** A basic raw material is cellulose derived and may burn if the dry powder is exposed to flame or heat at or above 500°F. Combustion may evolve carbon monoxide and dioxide and very minute amounts of hydrogen fluoride and chloride or other fluorine or chlorine compounds.

SECTION VI — SPILL, LEAK AND DISPOSAL INFORMATION

- SPILL OR LEAK PROCEDURES:** Sweep up spilled powder for disposal. Take up working solutions with additional LTS. Wear eye and skin protection when cleaning up spills. See Section VII.
- WASTE DISPOSAL:** Contact manufacturer. All waste disposal must be done in accordance with Federal, State and Local regulations.
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SECTION VII — RECOMMENDED OCCUPATIONAL EXPOSURE LIMIT/HAZARDOUS INGREDIENTS

EXPOSURE LIMIT (Product): None Established. See Hazardous Ingredients Section.

HAZARDOUS INGREDIENTS	CAS NO.	PERCENT	EXPOSURE LIMIT	
			ppm	mg/m ³
Ortho-benzyl-p-chlorophenol	120-32-1	< 2%	None Established	
or Sodium ortho-phenylphenate, tetrahydrate	6152-33-6	< 2%	None Established	
Ethyl Alcohol	64-17-5	< 2%	1000 ppm	
Flourinated Alkyl Alkoxylates	68958-61-2	< 1%	None Established	

Identity of specific components of this Mixture are proprietary.

SECTION VIII — PERSONAL PROTECTION INFORMATION

EYE PROTECTION:	Safety Glasses
SKIN PROTECTION:	Impervious Gloves
RESPIRATORY PROTECTION:	None required under normal use conditions.
VENTILATION:	Special ventilation is not required for normal use.

SECTION IX — PERSONAL HANDLING INSTRUCTIONS

HANDLING:	No special handling required. Avoid prolonged, excessive or repeated skin contact or inhalation. Avoid eye contact.
STORAGE:	Keep away from sparks and flame. Avoid accumulating dust. Avoid suspending dust in air. This product may react with oxidizing agents and should not be stored near oxidizers.
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.

 SECTION X — REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: Material stable but can combust.

INCOMPATIBILITY: Oxidizing agents, strong acids or alkali.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, fluorine and/or chlorine containing compounds.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None.

 SECTION XI — PHYSICAL DATA

BOILING POINT:	Not Applicable	SPECIFIC GRAVITY:	0.55 - 0.70
MELTING POINT:	Not Applicable	% VOLATILE BY VOL.:	< 1.0
VAPOR PRESSURE:	Not Applicable	EVAPORATION RATE (ETHER = 1):	Not Applicable
VAPOR DENSITY:	Not Applicable	VISCOSITY:	Not Applicable
SOLUBILITY:	Insoluble in water.	pH:	6.0 - 7.5 in water.
APPEARANCE/ODOR:	Odor-free, free-flowing crystalline powder.		

 SECTION XII — COMMENTS

Persons with a history of disease or illness involving the skin, eyes, respiratory tract, kidney, bladder or liver 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 1910.1101-1047 Subpart Z Toxic and Hazardous Substances.

Do not wear contact lens without proper eye protection when using this product.

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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.
