TERLYN

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INDUSTRIES Incorporated

Advanced Water Treatment Systems

LSB 4000

Locomotive Steam Boiler Water Treatment

Revision Date: 03/10/2000

24 Hour Emergency Phone: 1-800-244-3924

SECTION 1

OSHA HAZARD CLASSIFICATIONS

Corrosive to eyes and irritating to skin.

SECTION 2

HAZARDOUS COMPONENTS

The components of this product comprise proprietary information and is not available to the general public. Confidential proprietary information on this produce is available to the proper authorities pursuant to a signed Non-Disclosure Agreement between *TERLYN INDUSTRIES*, *Inc.* and said authority.

SECTION 3

PRECAUTIONARY LABEL INFORMATION AS PRESCRIBED BY THE U.S. EPA

This section is not applicable to non-biocides.

SECTION 4

FIRST AID INFORMATION

- **Eye Exposure:** Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes).
- Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.
- **Skin Exposure:** Wash exposed area with soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists, consult a health care professional immediately.
- **Inhalation:** If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual
 - experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.
- **Ingestion:** DO NOT induce vomiting. Rinse mouth with copious amounts of water or milk first. Irrigate the esophagus
 - and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose or convulsing, DO NOT

GIVES FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

Note to Physician: No specific antidote is known. Probable mucosal damage.

May contraindicate the use of gastric lavage.

Treat symptoms. For additional product formation call TERLYN INDUSTRIES, Inc. at 1-800-200-4112.

SECTION 5

PRIMARY ROUTES OF EXPOSURE

Effects from Acute Exposure:

Eye Exposure:Corrosive. Effects may range from moderate to severe corrosion depending on the length of exposure, solution concentration and first aid measures.

Skin Exposure:Irritant. Irritation will depend on solution strength, length of exposure and first aid measures. **Inhalation:**May cause irritation or corrosion of mucous membranes and the lungs. Exposed individuals

should be monitored.

Ingestion: Ingestion is not expected to be a primary route of exposure. No data is available on human ingestion.

Medical Conditions Generally Aggravated by Exposure: Not Applicable

SECTION 6

TOXICOLOGICAL INFORMATION

Health Hazards (acute and chronic):Corrosive to eyes and irritating to skin.

Acute Effects:

SECTION 7

PHYSICAL AND CHEMICAL PROPERTIES

- Freezing Point: <0E C (<32E F)
- Boiling Point:>100E C (>212E F)
- Vapor Pressure (MMHG): As Water
- Vapor Density (Air=1): As Water
- Specific Gravity (H₂0=1): 1.10 g/ml at 25E C
- Percent Volatiles by Volume: Not Tested
- pH (Neat Solution): 2.75
- pH (100 ppm in water): Same As Water
- Solubility in Water: Completely in Water

SECTION 8

FIRE AND EXPLOSION IFORMATION

Flammable Limits: Not Applicable Sp LEL: Not Applicable Unu	cinguishing Media:
SECTION 9	REACTIVITY INFORMATION
Incompatibility (Materials to avoid)	Stable):Strong acids, strong oxidizers, anionic polymers : Exposure to fire may generate oxides of phosphorous, nitrogen, and/or carbon
SECTION 10	HANDLING PRECAUTIONS
Rubber gloves and safety glasses or goggle Body-protective clothing and shoes are rec Eye-wash fountains in the work area are rec	ommended. Respiratory Protection: Not Applicable
SECTION 11	CATISEACTORY MATERIALS OF CONSTRUCTION

ABS Plexiglas **Fiberglass** Butyl Rubber Buna-N Rubber Tygon Tyril 880 **PVC** Teflon Polyethylene Polypropylene SiliconeRubber Viton **EPDM Rubber** Hypalon Neoprene Gum Rubber Stainless Steel 304/316

The materials listed above have tested compatible with LSB 8000. This is a representative list and although other materials may be compatible with this product, the use of materials not listed above cannot be guaranteed and could result in damages to such materials and other property, or personal injuries. No data concerning any materials not listed above should be implied by the user.

SECTION 12 SPILL, LEAK, AND DISPOSAL PROCEDURES

Steps to be taken in case material is released or spilled:

Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the handling precautions sections. Check the fire and explosion data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g. sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Determine if federal, state, and/or local release notification is required (see regulatory classifications sections of this MSDS).

Recover as much of the pure product as possible into appropriate containers. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay soil, or commercially available absorbents may be used to recover any material that cannot readily be recovered as pure product. Flushing residual material to an industrial sewer if present at the site of a spill may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to the intentionally flushing or pumping spills or leaks of this product to the industrial sewer.

Disposal Guidelines:

Determine if waste containing this product can be handles by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40CFR as a resource conservation and recovery act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product. Follow federal, state and local regulations governing the disposal of waste materials.

Container Disposal:

Empty containers as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in the container.

24 Hour Emergency Response Assistance: 1-800-255-3924

SECTION 13

TRANSPORTATION AND SHIPPING INFORMATION

DOT Shipping Name:Not Regulated

SECTION 14

REGULATORY INFORMATION

The following regulations are known to apply to the use and disposal of this product. Additional federal, state and local regulations may also be applicable.

SARA (Superfund Amendments and Reauthorization Act)

CERCLA

(Comprehensive Environmental Response Compensation and Liability Act): No components of this product are listed.

RCRA

CWA

(Clean water Act):	No components of this product are listed.
FDA:	
TSCA:	All components are listed on TSCA inventory.
FIFRA:	This product is not a registered pesticide.
HMIS/NPCA Ratings:	Health 2; Flammability 1; Reactivity 1
NFPA Ratings:	Health 2; Flammability 1; Reactivity 1

STATE REGULATIONS:

Various State Right to Know Acts: Should further information be required on specific proprietary chemicals, and/or inerts, contact *TERLYN INDUSTRIES, Inc.* Proprietary information is available contingent to a signed Non-Disclosure Agreement.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Data Sheet is the responsibility of the user. This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication regulations

TERLYN INDUSTRIES, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes all risk if used contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.