TERLYN INDUSTRIES Incorporated

Safety Data Sheet
LSB4000

Section 1: Identification

LSB4000
Locomotive Steam Boiler Treatment

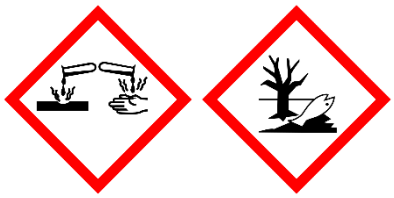
TERLYN INDUSTRIES
4906-D Creekside Drive
Clearwater, FL 33760
800-200-4112

Chem-Tel 24 Hour Emergency Phone
800-255-3924

Section 2: Hazard(s) Identification

Acute Toxicity (oral) - Category 5
Acute Toxicity (dermal) - Category 5
Serious Eye Damage/Eye Irritation - Category 2

Pictograms



Single Word---------- Warning

Hazards Not Classified --------- None Known

Hazard Statement ---------- May be harmful if swallowed. Corrosive to eyes and irritating to skin.

Precautionary Statement ------ Wear eye and face protection when handling open containers, or pouring product from container. If product is splashed into eyes, rinse thoroughly with water for several minutes. Remove contact lenses if present and continue rinsing. Take exposed individual to a health care provider, or opthamologist. For contact with skin, wash area with soap and water. Rinse clothing with water and launder before reuse. Product will not harm clothing.

Section 3: Composition / Information on Ingredients

LSB4000 is a trade secret mixture comprised of proprietary materials of which their information is confidential and not available to the general public. Although the components and concentrations of this product are proprietary and claimed as a trade secret in accordance with the provisions of OSHA 29 CFR 1910, 1200(i)… All known hazards are clearly communicated within this document.

Section 4: First-Aid Measures

Eye Exposure

Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Remove contact lenses if present and continue rinsing. Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

Skin Exposure

Wash exposed area with soap and water. Remove affected clothing and wash thoroughly before reuse. Product will not damage clothing. If there is any prolonged irritation, consult a health care professional.

Section 4 Continued: First-Aid Measures

Ingestion

DO NOT induce vomiting. Rinse mouth with copious amounts of water or milk first. Irrigate esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid alcohol or alcohol related products. If the individual is semi-comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In a case of intentional product ingestion, seek 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 medical information call Chem-Tel **24 hour emergency service at 800-255-3924.**

Section 5: Fire-Fighting Measures

Flash Point (Method Used)..... None

Flammable Limits..... Not Applicable

LEL ..... Not Applicable

UEL ..... Not Applicable

Extinguishing Media..... Product Is Not a Fire Hazard

Special Fire Fighting Procedures .....Not Applicable

Unusual Fire and Explosion Hazards ....Not Applicable

Section 6: Accidental Release Measures

Steps to be taken if material is released or spilled

Before responding to a spill or a leak of this product, review each section of this SDS. Follow the recommendations given in the handling precautions sections.

Minimize the area affected by the spill or leak. Block any potential routes to open water sources (e.g. storm sewers, streams, lakes, etc.). There are no methods available to completely eliminate any toxicity this product may have in 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 SDS).

Recover as much of the pure product as possible into appropriate containers. Clay soil, or commercially available absorbents may be used to recover any material that cannot readily be recovered as pure product. Product is 100% water soluble. Surfaces and clothing may be cleaned with soap and water. Residual material may be flushed with water to sanitary drain if present at the site of the spill.

Avoid dispersal of spilled material runoff and contact with soil, waterways, storm drains, or sewers. Inform relevant authorities if the product has caused environmental pollution (sewers, waterways, soil). May be harmful to the environment if released in large quantities.

If small spill or leak, stop the leak if this can be done without risk. Move containers from spill area. This product is water-soluble and may be diluted with water and mopped up and place in an appropriate waste disposal container.

Section 7: Handling and Storage

Rubber gloves and safety glasses or goggles required
Body-protective clothing and shoes are recommended
Eye-wash fountains in the work area are required

Ventilation..... Not Applicable
Respiratory Protection ..... Not Applicable
Work/Hygienic Practices ..... Not Applicable

Product can be safely transported and stored in its original packaging. There are no safety precautions or environmental conditions required for the short, or long term storage of this product. However, to maintain product performance it should not be stored in direct sunlight, or be allowed to freeze.

The following materials have been tested and are compatible for direct contact with LSB4000. This is a representative list of materials and although other materials may be compatible with this product, the use of materials not listed cannot be guaranteed and could result in damages to such materials, other property, or personal. No data concerning any materials not listed above should be implied by the user.

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

Section 8: Exposure Control / Personal Protection

Hygiene Measures

Wash hands thoroughly after handling chemical products, before eating, smoking, or using the lavatory, and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations are close to the work location.

Eye Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes or mists. If contact is possible, chemical splash goggles and/or face shield should be worn.

Skin Protection

Chemical resistant gloves, long sleeve shirts, long pants, and covered footwear should be worn.

Section 9: Physical and Chemical Properties

Appearance and Odor .....Clear Amber Liquid, Mild Odor

Odor Threshold.....No Data Available

Flammability or Explosive Limits .....Non-Flammable

Vapor Pressure (MMHG) .....Same as Water

Vapor Density (Air=1) .....Same as Water

pH (Neat Solution) .....2.5 pH

pH (100 ppm in water).....Same as Water

Relative Density.....Same as Water

Freezing Point.....<0° C (<32° F)

Boiling Point .....>100° C (>212° F)

Section 9 Continued: Physical and Chemical Properties

Solubility in Water .....Completely in Water

Specific Gravity (H_20=1) .....1.10 g/ml at 25° C

Flash Point .....Non-Flammable

Evaporation Rate .....No Data Available

Flammability (solid, gas) .....Non-Flammable

Partition coefficient: n-octanol/water .....No Data Available

Auto-ignition temperature .....Non-Flammable

Decomposition temperature .....No Data Available

Viscosity .....Same as Water

Section 10: Stability and Reactivity

Reactivity .....No specific test data is available related to reactivity.

Chemical Stability .....The Product is Stable.

Possibility of Hazardous Reactions .....No hazardous reactions under normal conditions of storage and use.

Conditions to Avoid .....No Specific Data is Available.

Incompatible Materials .....No Specific Data is Available.

Hazardous Decomposition .....No decomposition will occur under normal conditions of storage and use.

Section 11: Toxicological Information

Effects from Acute Exposure

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

Skin Exposure .....Irritant. Irritation will depend on length of exposure and skin sensitivity.

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.

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

Acute Effects (Rat)

Acute Oral LD50 .....2000 mg/kg (Exposure - 4 hours)

Acute Dermal LD50 .....2500 mg/kg (Exposure - 4 hours)

Carcinogenicity .....Not listed in any of OSHA Standard, Section 1910.1200 sources as carcinogenic.

Section 12: Ecological Information

Aquatic Toxicity (Marine Water)
Chronic Category IV

Acute EC50	.....190 mg/l Marine Water	(Daphnia)	Exposure - 48 hours
Acute LC50	.....<600 mg/l Marine Water	(Fish)	Exposure - 96 hours

No methods available to completely eliminate any toxicity this product may have on aquatic environments.

Section 13: Disposal Considerations

Disposal Guidelines

This product is not specifically listed in 40CFR as a resource conservation and recovery act (RCRA) hazardous waste. Check the characteristics of the absorbent material to be disposed of and/or the physical and reactivity data given in this SDS for the neat product. Follow federal, state, and local regulations governing the disposal of waste materials. Product is 100% water soluble and may be diluted with water and disposed of into sanitary drain.

Container Disposal: Empty containers as defined by the appropriate sections of the RCRA, are not hazardous wastes. Insure proper management of any residuals remaining in the container by rinsing with water and disposing to sanitary drain. Rinsed containers may be disposed of through normal means.

Section 14: Transportation Information

DOT Classification.....Not Regulated

Section 15: 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)
SARA 302 Extremely Hazardous Substances List..... No Components of this product are listed.
SARA 313 Toxic Chemicals List... No section 313 listed substances are present above de minimus levels.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act)
CERCLA..... No components of this product are present above de minimus levels.

RCRA (Resource Conservation and Recovery Act)
Listed Hazardous Wastes.....No components of this product are listed.

CWA (Clean Water Act) .....No components of this product are listed.

FDA ..... This product is not approved for food contact uses.

TSCA..... All components are listed on TSCA inventory.

FIFRA .....This product is not a registered pesticide.

Section 16: Other Information

HMIS & NFPA ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them.

Hazardous Material Information System

HMIS Ratings:

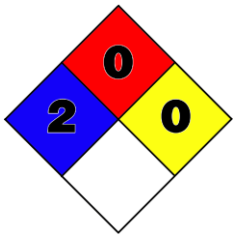
Health 2 | Flammability 0 | Reactivity 0

Health	**2**
Flammability	**0**
Reactivity	**0**
Personal Protection	**A**

National Fire Protection Association

NFPA Ratings:

Health 2 | Flammability 0 | Reactivity 0



Revision Date: 07/2024

The information in this 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 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.

Neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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 judgement upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.