SAFETY DATA SHEET
LEISHMAN'S BUFFER WORKING, pH 6.8

Section 1 - Chemical Product and Company Identification

SDS Name: Leishman's Buffer Working, pH 6.8
Catalog Numbers: SO-576, B-157-2
Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923
for information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H303-Acute toxicity, oral: 5
H316-Skin corrosion/irritation: 3
H320-Serious eye damage/eye irritation: 2B

Pictograms or Hazard symbols and Hazard statement(s):

Signal word: Warning

Hazard Statements:

H303-May be harmful if swallowed
H316-Causes mild skin irritation
H320-Causes eye irritation

Precautionary Statements:

P264-Wash thoroughly after handling.
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312-Call a Poison Center/doctor/physician if you feel unwell.
P332+P313-If skin irritation occurs: Get medical advice/attention.
P337+P313-If eye irritation persists: Get medical advice/attention.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7778-77-0	Potassium Phosphate Monobasic	0.03 w/v
7558-79-4	Sodium Phosphate Dibasic Anhydrous	0.01 w/v
89-83-8	Thymol	<0.01 w/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice. Rinse mouth with water and, after rinsing, drink water.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, phosphorus oxides, potassium oxides, sodium oxides, phosphorus trihydride (phosphine), irritating toxic fumes and gases.

Flash Point: Not available
Auto ignition Temperature: Not available
Explosion Limits, Lower: Not available

Upper: Not available
NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):
Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Eliminate all sources of ignition.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Store capped at room temperature in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Potassium Phosphate Monobasic CAS#7778-77-0	Not listed	Not listed	Not listed
Sodium Phosphate Dibasic Anhydrous CAS#7558-79-4	Not listed	Not listed	Not listed
Thymol CAS#89-83-8	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear
Odor: Odorless
Vapor Pressure: Not available
Odor threshold: Not available
Vapor Density: Not available
pH: 6.7-6.9
Relative density: Not available
Melting point/freezing point: Not available
Solubility: Soluble in water
Boiling Point: Not available
Flash point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, excess, heat, freezing, and exposure to moist air or water.
Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, and strong bases.
Hazardous Decomposition Products: Carbon oxides, phosphorus oxides, potassium oxides, sodium oxides, phosphorus trihydride (phosphine), irritating toxic fumes and gases.

Section 11 - Toxicological Information

CAS#7778-77-0 Potassium Phosphate Monobasic: RTECS#: TC6615500
LD50 Oral: 3200 mg/kg (rat)
LD50 Dermal: >4640 mg/kg (rabbit)
LC50 Inhalation: >0.83 mg/L 4h (rat)

Carcinogenicity: Sodium Phosphate Monobasic Monohydrate CAS#7778-77-0 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

CAS#7558-79-4 Sodium Phosphate Dibasic Anhydrous: RTECS#: WC4500000
LD50 Oral: 17 g/kg (rat)
LD50 Dermal: Not available
LC50 Inhalation: Not available

Carcinogenicity: Sodium Phosphate Dibasic Anhydrous CAS#7558-79-4 is not listed by IARC, NTP, ACGIH, OSHA or California Prop 65.

CAS#89-83-8 Thymol:
LD50 Oral: 980 mg/kg (rat)
LD50 Dermal: >2000 mg/kg (rat)
LC50 Inhalation: Not available

Carcinogenicity: Thymol CAS#89-83-8 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

Epidemiology: Not available
Teratogenicity: Not available
Reproductive Effects: Not available
Developmental Effects: Not available
Neurotoxicity: Not available
Mutagenicity: Not available
Specific Target Organ Toxicity, Single Exposure: Not available
Specific Target Organ Toxicity, Repeated Exposure: Not available

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains.

CAS#7778-77-0 Potassium Phosphate Monobasic:
LC50, freshwater fish: >100 mg/L 96h semi-static (oncorhynchus mykiss)(rainbow trout)
EC50, water flea: >100 mg/L 48h static (daphnia magna)
EC50, algae: >100 mg/L 72h static (desmodesmus subspicatus)(green algae)
EC50, bacteria: >1000 mg/L 3h static (activated sludge)

CAS#7558-79-4 Sodium Phosphate Dibasic Anhydrous:
LC50, freshwater fish: >100 mg/L 96h semi-static (oncorhynchus mykiss)(rainbow trout)
EC50, water flea: >100 mg/L 48h static (daphnia magna)
EC50, algae: >100 mg/L 72h static (desmodesmus subspicatus)(green algae)
EC50, bacteria: >1000 mg/L 3h static (activated sludge)

CAS#89-83-8 Thymol:
LC50, freshwater fish: 3.2-4.2 mg/L 96h (pimephales promelas)
EC50, water flea: 1.7-3.2 mg/L 96h

Persistence and degradability: Soluble in water. Persistence is unlikely based on available information.
Bio-accumulative potential: Not available
Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT
Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR

Section 16 - Additional Information

SDS Creation Date: 5-6-22

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