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MATERIAL SAFETY DATA SHEET

STANDARD BUFFER SOLUTION, pH 4.00

MSDS# 3004

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: STANDARD BUFFER SOLUTION, pH 4
SYNONYMS: N/A

CHEMICAL FORMULA: N/A

SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL NAMES	%	OSHA PEL	ACGIH TLV	CAS #
Potassium Acid Phthalate	1-2	N/A	N/A	877-24-7
Thymol	<1	N/A	N/A	89-83-8
Water	Balance	N/A	N/A	7732-18-5

SECTION 3. HAZARDS IDENTIFICATION

PRECAUTIONARY RATINGS

0 = LEAST
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

HEALTH: 1
FIRE: 0
REACTIVITY: 0
SPECIFIC HAZARD: N/A
EMERGENCY CONTACT: CHEMTREC (800) 424-9300

Emergency Overview:

CAUTION! May cause irritation to skin and eyes. May cause slight irritation to respiratory tract. May cause slight allergic irritation to digestive tract.

CARCINOGENICITY: None of the ingredients listed by IARC, NTP, OSHA.

SECTION 4. FIRST AID MEASURES

Eyes: Flush opened eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists.
Ingestion: If victim is conscious and alert, give large quantities of milk or water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: N/A. **Method Used:** N/A.
Lower Explosion Limits: N/A. **Upper Explosion Limits:** N/A.
Autoignition temperature: N/A.
Extinguishing Media: Use water spray, dry chemical, carbon dioxide or chemical foam.
Fire and Explosion Hazards: Not considered to be a fire or explosion hazard.
Fire Fighting Instructions: Use normal procedures/instructions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Evacuate the area of all unnecessary personnel. Ventilate area of leak or spill. Absorb with suitable absorbent. Neutralize with dilute alkaline solutions. May flush the neutralized solution down the drain with excess water if regulations allow. Otherwise, containerize for proper disposal in compliance with federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Handling: Wash hands thoroughly after handling. Avoid contact with eyes and skin.
Storage Requirements: Keep storage containers tightly closed in a cool dry place. No special handling, storage necessary.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep exposure concentrations low.
Respiratory Protection: Normal room ventilation is adequate. Check with supplier or regulatory agency for appropriate NIOSH approved respirators.
Skin Protection: Chemical resistant gloves.
Eye Protection: Safety glasses or goggles with side shields.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: ca. 100 C **VAPOR PRESSURE (mmHg):** N/A **pH:** 4
MELTING POINT: ca. 0 C **VAPOR DENSITY (air=1):** N/A
SPECIFIC GRAVITY: ca. 1 **EVAPORATION RATE:** N/A
SOLUBILITY (H₂O): INFINITE **APPEARANCE & ODOR:** CLEAR, COLORLESS LIQUID, WITH NO ODOR.

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE
INCOMPATIBILITY: STRONG OXIDIZING AGENTS.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon and Potassium.
CONDITIONS TO AVOID: INCOMPATIBLES, EXCESS HEAT

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 7732-18-5: ZC0110000

CAS# 877-24-7: CZ4326000

CAS# 89-83-8: XP2275000

LD50/LC50:

CAS# 877-24-7:

LD50, Oral, Rat: >3200 mg/kg

LD50, Dermal, guinea pig: >1 gm/kg

CAS# 89-83-8:

LD50, Oral, 980 mg/kg (Rat), 640 mg/kg (Mouse), 880 mg/kg (Guinea Pig)

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate: No information found. Environmental Toxicity: No information found.

SECTION 13. DISPOSAL CONSIDERATIONS

Neutralize with dilute alkaline solutions. May flush the neutralized solution down the drain with excess water if regulations allow. Otherwise, containerize for proper disposal in compliance with federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION

Department of Transportation (DOT):: NOT REGULATED BY D.O.T

SECTION 15. REGULATORY INFORMATION

TSCA Inventory List:

All of the ingredients (or their hydrate forms) are listed.

CERCLA Reportable Quantity (RQ):

None of the ingredients have an RQ.

SARA Section 302 Threshold Planning Quality (TPQ):

None of the ingredients have a TPQ.

SARA Title Codes:

CAS # 877-24-7: acute.

CAS # 89-83-8: acute.

OSHA:

This product is not considered to be highly hazardous by OSHA Hazard Communication Standard.

SECTION 16. OTHER INFORMATION

ALL INFORMATION RECOMMENDATIONS AND SUGGESTIONS APPEARING HEREIN CONCERNING OUR PRODUCT ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE, HOWEVER IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS/HER OWN USE OF THE PRODUCT DESCRIBED HEREIN. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE & SUITABLE TO THEIR CONDITIONS. SINCE THE ACTUAL USE BY OTHERS IS BEYOND OUR CONTROL, NO GUARANTEE, EXPRESSED OR IMPLIED IS MADE BY SHAPE PRODUCTS AS TO THE EFFECTS OF SUCH USE, SHAPE PRODUCTS DOES NOT ASSUME ANY LIABILITY ARISING OUT OF USE, BY OTHERS OF THE PRODUCTS REFERRED TO HEREIN. NOR IS THE INFORMATION HEREIN TO BE CONSTRUED AS ABSOLUTELY COMPLETE SINCE ADDITIONAL INFORMATION MAY BE NECESSARY OR DESIRABLE WHEN PARTICULAR OR EXCEPTIONAL CONDITIONS OR CIRCUMSTANCES EXIST OF BECAUSE OF APPLICABLE LAWS OR GOVERNMENT REGULATIONS.