

**MATERIAL SAFETY DATA SHEET
FOR
THORN SMITH LABORATORIES
STUDENT REFERENCE STANDARDS AND REAGENT CHEMICALS**

Potassium Biphthalate
Catalog Number 81-1045

Manufacturer: Auric Enterprises, Inc.
d/b/a Thorn Smith Laboratories
Address: 7755 Narrow Gauge Road
Beulah, MI 49617
Phone Number: 231-882-4672
MSDS Number: TSL-107
Date Prepared: September 27, 1989
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SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

Potassium Biphthalate

Common Synonyms: 1,2-Benzenedicarboxylic acid monopotassium salt; potassium hydrogen phthalate, potassium acid phthalate.

Formula: $\text{KHC}_8\text{H}_4\text{O}_4$

Chemical Weight: 204.23

CAS No.: 877-24-7

OSHA PEL: According to our sources, exposure threshold levels have not been established (N/E).

ACGIH TLV: N/E

OTHER LIMITS: N/A

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A

Specific Gravity ($\text{H}_2\text{O}=1$): 1.64

Vapor Pressure (mm Hg and Temperature): N/A

Melting Point: N/A

Vapor Density (Air-1): N/A

Evaporation Rate (-1): N/A

Solubility in Water: 25mg/100ml cold water

Water Reactive: No

Appearance and Odor: Colorless or white crystals. Odorless.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used: N/A

Auto-Ignition Temperature: N/A

Flammability Limits in Air (% by volume): N/A

LEL: N/A UEL: N/A

Extinguisher Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Not considered to be an explosion hazard.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable Unstable

Conditions to Avoid: Stable under ordinary conditions of use and storage.

Incompatibility (Materials to Avoid): Nitric acid.

Hazardous Decomposition Products: Oxides of carbon and potassium may form when heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur Will Not Occur

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:

Inhalation Ingestion Skin Contact Eye Contact Not Hazardous

CARCINOGEN LISTED IN:

NTP OSHA IARC Monograph Not Listed

TOXICITY: No LD50/LC50 information found relating to normal routes of occupational exposure.

HEALTH HAZARDS - Acute:

Inhalation: May cause irritation to mucous membranes because of slight acidity. Symptoms may include coughing and sore throat.

Ingestion: Large doses may cause nausea, vomiting and abnormal sensations in hands and feet.

Because of the slight acidity, causes irritation to the mucous membranes. May cause gastrointestinal irritation.

Skin Contact: May cause minor irritation, with redness and pain.

Eye Contact: May cause irritation and damage.

HEALTH HAZARDS - Chronic: Elevated blood pressure and accelerated respiration rate.

Signs and Symptoms of Exposure: No information found.

Medical Conditions Generally Aggravated by Exposure: High Blood Pressure.

EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation, and support if necessary.

Inhalation: Move the exposed person to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give water or milk to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Remove any contaminated clothing. Wipe off excess from skin. Immediately wash

skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

SARA/TITLE III HAZARD CATEGORIES AND LISTS

Acute: No Chronic: Yes Flammability: No Pressure: No Reactivity: No
Extremely Hazardous Substance: No
CERCLA Hazardous Substance: No
SARA 313 Toxic Chemicals: No
TSCA Inventory: No

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type): For conditions of use where exposure to the dust is apparent, a NIOSH approved dust/mist respirator may be worn. For emergencies, a NIOSH approved self-contained breathing apparatus may be necessary.

Protective Gloves: Wear rubber gloves.

Eye Protection: Wear chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

VENTILATION TO BE USED: A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant in the workroom air.

Local Exhaust Mechanical (General) Special
 Other(Specify)

Other Protective Clothing and Equipment: Wear clean body-covering clothing.

Hygienic Work Practices: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING & LEAK/USE PROCEDURES

Steps to be taken if material is spilled or released: Ventilate area of leak or spill. Clean-up personnel may require respiratory protection from dust. Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Waste Disposal Methods: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility. Small amounts of residue may be flushed to sewer with plenty of water. Dispose in accordance with all applicable local, state, federal environmental regulations.

Precautions to be taken in handling and storage: Keep in a tightly closed container stored in a cool, dry ventilated area. Protect against physical damage. Store in accordance with all applicable local, state, and federal environmental regulations.

Other precautions and/or special hazards:

NFPA Rating: Health: **1** Flammability: **1** Reactivity: **0**.

HMIS Rating: No information available.

SECTION 8 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name: Chemical, n.o.s. (Non-regulated)

International (T.M.O.)

Proper Shipping Name: Chemical, n.o.s. (Non-regulated)

AIR (I.C.A.O.)

Proper Shipping Name: Chemical, n.o.s. (Non-regulated)

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