SAFETY DATA SHEET FOR THORN SMITH LABORATORIES

SECTION 1 - IDENTIFICATION

Trade Name:	Potassium Biphthalate for acidity
Catalog Number:	80-1475 (Vials) / 80-1476 (100g)
Product Description:	Analyzed Quantitative Unknowns
Manufacturer:	Auric Enterprises, Inc.
	d/b/a Thorn Smith Laboratories
Address:	7755 Narrow Gauge Road

Phone Number: SDS Number:

IS Beulah, MI 49617 231-882-4672 TSL-002

SECTION 2 – HAZARDS IDENTIFICATION

Classification of Substance or Mixture: Not a hazardous substance or mixture as packaged in 10g student vials or 100g containers.

GHS Label Elements, including precautionary statements: Not a hazardous substance or mixture as packaged in 10g student vials or 100g containers.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

Potassium Biphthalate Common Synon	yms: 1,2-Benzenedicarboxylic acid monopotassium salt; potassium hydrogen phthalate, potassium acid phthalate, acid potassium phthalate.
Formula:	KHC ₈ H ₄ O ₄
CAS No.:	877-24-7
Sodium Chloride	
Formula:	NaCl
CAS No.:	7647-14-5
% by Weight:	< 60

Potential Acute Health Effects: Slightly hazardous in case of skin and eye contact (irritant), of ingestion, of inhalation.

- **Potential Chronic Health Effects:** Repeated or prolonged exposure is not known to aggravate medical conditions.
- **Eye Contact:** Do not rub eye(s). Flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.

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.

Inhalation: If a person breathes in large amounts, move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: If swallowed, and if person is conscious, immediately give large amounts of water. Get medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability:	Non-Flammable	
Flash Points:	Not Applicable	
Auto-Ignition:	Not Applicable	
Flammable Limits:	N/A	
Extinguishing Media: U	Jse extinguishing media appropriate to the surrounding fire.	
Fire Fighting Procedure	: Firefighters should wear self-contained breathing apparatus and protective	
clothing to prevent inhala	tion or contact with skin and eyes.	
Fire/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 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Sweep up and containerize for reclamation of disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Whatever cannot be save for reclamation may be delivered to an approved waste disposal facility. Small amounts of residue may be flushed to sewer with plenty of water.

SECTION 7 – HANDLING AND STORAGE

Storage Temperatures: Store at ambient temperatures.Shelf Life: Unlimited in tightly closed container.Special Sensitivity: Nitric acid, strong oxidizing agents, lithium inter-halogens, iron, cement.

Precautions to be taken in handling and storage: Store in accordance with all local, state, and federal environmental regulations. Keep away from fire and/or sparks.

 Respiratory Protection (Specify Type): None where adequate ventilation conditions exist. If airborne Concentration is high, use an appropriate respirator or dust mask.

 Protective Gloves: Wear protective gloves.

 Eye Protection: Wear chemical safety glasses.

 Ventilation To Be Used: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

 _____X_ Local Exhaust ___X_ Mechanical (General) _____ Special

 _____ Other (Specify)

 Other Protective Clothing and Equipment: Wear clean body-covering clothing. Emergency showers and eye was stations should be available.

 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. Avoid flames and fire.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Crystals (KHC₈H₄0₄); Crystalline solid (NaCl) **Physical Form:** Color: White Odor: Odorless Molecular Weight: N/A **Boiling Point:** 1413°C (2575°F) (NaCl) **Melting Point:** 801°C (1474°F) (NaCl) **Specific Gravity:** 1.64 (KHC₈H₄0₄); 2.16 (NaCl) Solubility in Water: 25mg/100ml cold water (KHC₈H₄0₄); Appreciable (more than 10%) (NaCl) Water Reactive: No Vapor Density (Air-1): N/A **Evaporation Rate (-1):** N/A

SECTION 10 – STABILITY AND REACTIVITY

STABILITY:X	Stable	Unstable	:
Conditions to Avoid: Humid	ty		
Incompatibility (Materials to	avoid): Nitric acid,	strong oxidizing a	agents, lithium, inter-halogens, iron
cement.			
Hazardous Decomposition P	oducts: Oxides of c	arbon and potassi	um may form when heated to
decomposition.			
HAZARDOUS POLYMERI	ZATION: M	av Occur X	Will Not Occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure:	Eye Contact. Ingestion. Inhalation. Skin contact.	
Toxicity Data:	Potassium Biphthalate: No LD50/LC50 information found.	
	Sodium Chloride LD50 (oral-rat) 3000 mg/kg; LD50 (ipr-mouse) 2602 mg/kg;	
	LD50 (scu-mouse) 3150 mg/kg; LD50 (iv-mouse) 645 mg/kg.	
Chronic Toxic Effects:	Elevated blood pressure and accelerated respiration rate.	
Acute Toxic Effects:	Inhalation of dust may cause irritation to upper respiratory tract and mucous	
	membranes because of slight acidity. Symptoms may include coughing and	
	sore throat. Large ingested doses my cause gastrointestinal irritation, nausea,	
	vomiting, and diarrhea. May cause irritation to eyes and skin, with redness and	
pain.		
Extremely Hazardous S	ubstance: No	
CERCLA Hazardous Substance: No		
SARA 313 Toxic Chemicals: No		
TSCA Inventory: No		

SECTION 12 – ECOLOGICAL INFORMATION

Not Known

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal environmental regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Domestic (D.O.T.) Proper Shipping Name:

Chemicals, n.o.s.

International (T.M.O.) Proper Shipping Name:

Chemicals, n.o.s.

<u>Air (I.C.A.O.)</u> Proper Shipping Name:

Chemicals, n.o.s.

SECTION 15 – REGULATORY INFORMATION

Pennsylvania Right to Know Components:Potassium hydrogen phthalateCAS-No. 877-24-7Sodium ChlorideCAS-No. 7647-14-5

New Jersey Right to Know Components:	
Potassium hydrogen phthalate	CAS-No. 877-24-7
Sodium Chloride	CAS-No. 7647-14-5

SECTION 16 – OTHER INFORMATION

NFPA Rating:	Health: 1	Flammability: 0	Reactivity: 0	
HMIS Rating:	Health: 1	Fire: 0	Reactivity: 0	Protection: C

Date Prepared: Date of Last Revision: September 7, 1989 November 11, 2020

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