# SAFETY DATA SHEET FOR THORN SMITH LABORATORIES

#### **SECTION 1 - IDENTIFICATION**

Trade Name: **Soluble Chloride** for Cl

Catalog Number: 80-1575 (Vials) / 80-1576 (100g)
Product Description: Analyzed Quantitative Unknowns

Manufacturer: Auric Enterprises, Inc.

d/b/a Thorn Smith Laboratories

Address: 7755 Narrow Gauge Road

Beulah, MI 49617

Phone Number: 231-882-4672 SDS Number: TSL-004

#### **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

## **Potential Acute Health Effects:**

Slightly hazardous in case of skin and eye contact (irritant). Slight hazardous in case of ingestion and inhalation.

#### **Potential Chronic Health Effects:**

Mutagenic for bacteria and/or yeast. Mutagenic for mammalian somatic cells. Repeated or prolonged exposure to this compound can produce target organs damage.

### SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Potassium Chloride

Formula: KCl CAS No.: 7447-40-7 % by Weight: 25-50%

Sodium Chloride

Formula: NaCl
CAS No.: 7647-14-5
Common Synonyms: Salt; Sea Salt
% by Weight: 51-75%

	SECTION 4 – FIRST AID MEASURES
lifting upper a Skin Contact: Remove Immediately v Inhalation: If a person fresh air. If ne medical advice Ingestion: DO NOT in	rub eye(s). Flush with plenty of cold water for at least 15 minutes, and lower eyelids occasionally. Get medical attention.  e any contaminated clothing. Wipe off excess from skin.  vash skin with soap and water. Get medical attention if irritation develops or persists.  In breathes in large amounts, move the exposed person to be breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek e.  Induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an erson. Get medical attention if symptoms appear.
	SECTION 5 – FIRE FIGHTING MEASURES
Fire Fighting Procedu inhalation or contact w	Non-Flammable Not Applicable Not Applicable N/A Use extinguishing media appropriate to the surrounding fire.  Ire: Firefighters should wear self-contained breathing apparatus and protective clothing to prevent ith skin and eyes.  ds: When heated to decomposition emits toxic fumes.
	SECTION 6 – ACCIDENTAL RELEASE MEASURES
solid in a convenient w	res: Utilize recommended protective clothing and equipment. Use appropriate tools to put the spilled aste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose Federal, State and Local environmental regulations.
	SECTION 7 – HANDLING AND STORAGE
Shelf Life: Unlimited Special Sensitivity: H Precautions to be take	s: Store at ambient temperatures. in tightly closed container. ygroscopic. Keep away from oxidizing agents, acids and moisture. en in handling and storage: Store in accordance with all environmental regulations. Keep away from fire and/or sparks.
SI	CCTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION
Concentration is high, Protective Gloves: W Eye Protection: Wear	n (Specify Type): None where adequate ventilation conditions exist. If airborne use an appropriate respirator or dust mask. ear protective gloves. chemical safety glasses. d: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possibleX Mechanical (General) Special

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.

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#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Solid crystalline powder

Color: White Odor: Odorless

Molecular Weight: 74.55 g/mole (KCl); 58.44 g/mole (NaCl)

**Boiling Point:** 1420°C (2588°F) (KCl); 1413°C (2575.4°F) (NaCl) **Melting Point:** 770°C (1418°F) (KCl); 801°C (1473.8°F) (NaCl)

Solubility in Water: Soluble in cold or hot water.

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:** Humidity

Incompatibility (Materials to avoid): Oxidizing agents, acids (KCl). Oxidizing agents, acids, metals (NaCl)

**Hazardous Decomposition Products:** N/A

**Reactivity:** Hygroscopic. May react violently with BrF3 (KCl); NaCl reacts with nonnoble metals such as iron or steel, building materials (such as cement). Sodium Chloride is rapidly attacked by bromine trifluoride. Violent reaction with

lithium. (NaCl).

**HAZARDOUS POLYMERIZATION:** \_\_\_\_\_ May Occur \_\_X\_ Will Not Occur

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# SECTION 11 – TOXICOLOGICAL INFORMATION

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**Routes of Exposure:** Ingestion. Inhalation.

**Toxicity Data:** Acute Oral Toxicity LD50: 1500 mg/kg (mouse) - KCl

Acute Oral Toxicity LD50: 3000 mg/kg (rat) - NaCl

Acute Dermal Toxicity LD50: >10000 mg/kg (rabbit) - NaCl Acute Toxicity to Dust (LC50): >42000 mg/m<sup>3</sup> 1 hour (rat) - NaCl

Chronic Toxic Effects: KCl – may cause damage to the blood and cardiovascular system. May effect genetic material.

Passes through placental barrier in animals.

NaCl – Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

Acute Toxic Effects: May cause skin and eye irritation. Ingestion of large quantities may irritate the stomach with

nausea and vomiting. May effect behavior (muscle spasicity/contraction, somnolence), sense organs, metabolism, blood, and cardiovascular system. Continued exposure may produce dehydration, internal organ congestion, and coma. Inhalation of dust may cause irritation to upper respiratory tract, nose and throat. Large ingested doses may cause gastrointestinal

irritation and pain.

## SECTION 12 – ECOLOGICAL INFORMATION

None 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.

Air (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s.

SECTION 15 – REGULATORY INFORMATION

Non-regulated.

SECTION 16 – OTHER INFORMATION

SARA TITLE III HAZARD CATEGORIES AND LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No

**Extremely Hazardous Substance:** No **CERCLA Hazardous Substance:** No **SARA 313 Toxic Chemicals:** No

TSCA Inventory: Yes

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

HMIS Rating: Health: 1 Fire: 0 Reactivity: 0 Protection: E

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