### SAFETY DATA SHEET FOR THORN SMITH LABORATORIES

## **SECTION 1 - IDENTIFICATION**

Trade Name:	Soluble Chloride for Cl
Catalog Number:	80-1575
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: CAS No.: % by Weight:	KCl 7447-40-7 25-50%
Sodium Chloride Formula: CAS No.:	NaCl 7647-14-5

Common Synonyms:	Salt; Sea Salt
% by Weight:	51-75%

#### **SECTION 4 – FIRST AID MEASURES**

Eye Contact: Do not rub eye(s). Flush with plenty of cold water for at least 15 minutes,

lifting upper and lower eyelids occasionally. Get medical attention.

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

Immediately wash skin with soap and water. 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 advice.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

#### **SECTION 5 – FIRE FIGHTING MEASURES**

Flammability:Non-FlammableFlash Points:Not ApplicableAuto-Iginition:Not ApplicableFlammable Limits:N/AExtinguishing Media:Use extinguishing media appropriate to the surrounding fire.Fire Fighting Procedure:Firefighters should wear self-contained breathing apparatus and protective clothing to preventinhalation or contact with skin and eyes.When heated to decomposition emits toxic fumes.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Utilize recommended protective clothing and equipment. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of in accordance to all Federal, State and Local environmental regulations.

#### **SECTION 7 – HANDLING AND STORAGE**

Storage Temperatures: Store at ambient temperatures.

Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: Hygroscopic. Keep away from oxidizing agents, acids and moisture.

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.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Physical Form:	Solid crystalline powder	
Color:	White	
Odor:	Odorless	
Molecular Weight: 74.55 g/mole (KCl); 58.44 g/mole (NaCl)		
<b>Boiling Point:</b>	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		
<b>Evaporation Rate</b>	(-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 OccurX Will Not Occur

### SECTION 11 - TOXICOLOGICAL INFORMATION

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		
<b>Chronic Toxic Effects:</b>	ts: KCl-may cause damage to the blood and cardiovascular system. May effect genetic materia		
	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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