# MATERIAL SAFETY DATA SHEET FOR

## THORN SMITH LABORATORIES ANALYZED QUANTITATIVE UNKNOWNS

Soluble Chloride for Cl Catalog Number 80-1575

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-004

Date Prepared: September 7, 1989 Date Updated: December 19, 2011

### **SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

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

Potassium Chloride

Formula: KC1

CAS No.: 7747-40-7

OSHA PEL: According to our sources, exposure threshold levels have not been established.

(N/E)

ACGIH TLV: N/E OTHER LIMITS: N/A

Sodium Chloride

Formula: NaCl CAS No.: 7647-14-5

OSHA PEL: N/E ACGIH TLV: N/E

#### **SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: 1413° C (2575° F)

Specific Gravity (H<sub>2</sub>O=1): 1.98 (KC1); 2.16 (NaCl)

Vapor Pressure (mm Hg and Temperature): <1 (NaCl)
Melting Point: 770° C (1418° F) (KC1); 801° C (1474° F) (NaCl)
Vapor Density (Air-1): N/A
Evaporation Rate (-1): N/A
Solubility in Water: Appreciable (more than 10%)
Water Reactive: No
Appearance and Odor: Colorless to white crystals (KC1); white crystalline solid (NaCl). 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. Carbon Dioxide, dry chemical powder, alcohol or polymer foam.  Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.  Unusual Fire and Explosion Hazards: Toxic gases produced: Hydrogen chloride.
SECTION 4 - REACTIVITY HAZARD DATA
STABILITY:X Stable Unstable Conditions to Avoid: Heat. Stable under ordinary conditions of use and storage. Incompatibility (Materials to Avoid): Strong acids, fluorine, alum, ammonium salts, strong oxidizing agents, lithium, inter-halogens, iron, cement. Hazardous Decomposition Products: Oxides, carbon monoxide, carbon dioxide, hydrogen chloride. HAZARDOUS POLYMERIZATION: May OccurX_ Will Not Occur
SECTION 5 - HEALTH HAZARD DATA
PRIMARY ROUTES OF ENTRY:  _X Inhalation
TOXICITY: 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.  Potassium Chloride: LDLO (ori-inf) 938 mg/kg/2d; LDLO (orl-man) 20 mg/kg; LD50 (orl-rat) 2600 mg/kg; LD50 (ipr-rat) 660 mg/kg; LD50 (ivn-rat) 142 mg/kg; LD50 (orl-mus) 2715 mg/kg; LD50 (ipr-mus) 1181 mg/kg; LD50 (ivn-mus) 117 mg/kg; LD50 (ori-gpg) 2500 mg/kg.

#### **HEALTH HAZARDS - Acute:**

Inhalation: Inhalation of dust may cause irritation to upper respiratory tract and mucous membranes. Ingestion: Large doses may cause gastrointestinal irritation, weakness, and circulatory disturbances.

Skin Contact: May cause irritation. Eye Contact: May cause irritation.

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: If a person breathes in large amounts, move the exposed person to fresh air. Get medical attention.

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

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

#### SARA/TITLE III HAZARD CATEGORIES AND LISTS

Acute: Yes Chronic: No 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

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	rpe): None required where adequate ventilation conditions exist. If airborne appropriate respirator or dust mask.	
Protective Gloves: Wear rubber	11 1 1	
Eye Protection: Wear chemi		
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.

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: Wear suitable protective clothing. Carefully sweep up and remove.

Waste Disposal Methods: For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH

to neutral, separate any insoluble solids or liquids and package them for hazardous waste disposal. Flush aqueous solution down the drain with plenty of water. The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition. 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. Hygroscopic. Suitable for any general chemical storage area. Store in accordance with all applicable local, state, and federal environmental regulations

Other precautions and/or special hazards: No information available.

NFPA Rating: Health: 1 Flammability: 0 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)

<u>International (T.M.O.)</u>

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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