SAFETY DATA SHEET
FOR
THORN SMITH LABORATORIES

SECTION 1 - IDENTIFICATION

Trade Name:	**Sodium Chloride**
Catalog Number:	81-1085 (100g) / 81-1086 (500g)
Product Description:	Student Reference Standards and Reagent Chemicals
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-103

SECTION 2 – HAZARDS IDENTIFICATION

Classification of Substance or Mixture: Not a hazardous substance or mixture as packaged in 100g or 500g containers.

GHS Label Elements, including precautionary statements: Not a hazardous substance or mixture as packaged in 100g or 500g 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), of ingestion, of inhalation.

Potential Chronic Health Effects:
This product has no known chronic effects. Repeated or prolonged exposure is not known to aggravate medical conditions.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Sodium Chloride

Formula:	NaCl
CAS No.:	7647-14-5
Purity:	99% or higher

SECTION 4 – FIRST AID MEASURES

Eye Contact: Do not rub eye(s); check for and remove contact lenses. Flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, seek medical attention.

Skin Contact: Irritant. 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 advice.

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-Iginition: Not Applicable
Flammable Limits: N/A
Extinguishing Media: Use extinguishing media appropriate to the surrounding fire.
Fire Fighting Procedure: Firefighters should wear self-contained breathing apparatus and protective clothing to prevent inhalation or contact with skin and eyes.
Fire/Explosion Hazards: Electrolysis of sodium chloride in the presence of nitrogenous compounds to produce chlorine May lead to formation of explosive nitrogen trichloride. Potentially explosive reaction with dichloromaleic anhydride + urea.

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.
Storage: Suitable for any general chemical storage area.
Shelf Life: Unlimited in tightly closed container.
Special Sensitivity: Isolate from incompatibles such as oxidizing agents, acids.
Precautions to be taken in handling and storage: Store in accordance with all local, state, and federal environmental regulations.

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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Crystalline solid; powder
Color: White
Odor: Slight
Molecular Weight: 58.44 g/mole
Specific Gravity (Water = 1): 2.165
Boiling Point: 1413°C (2575.4°F)
Melting Point: 801°C (1473.8°F)
Solubility in Water: Appreciable (more than 10%)
Water Reactive: No
Vapor Pressure: N/A
Vapor Density (Air-1): N/A
Evaporation Rate (-1): N/A

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: __X__ Stable _____ Unstable
Conditions to Avoid: High temperatures. Stable under ordinary conditions of use and storage.
Incompatibility (Materials to avoid): Strong acids, alum, fluorine, ammonium salts, stong oxidizing agents, lithium, inter-halogens, iron, cement.
Hazardous Decomposition Products: Oxides, carbon monoxide, carbon dioxide, hydrogen chloride.
Special Remarks on Reactivity: Hygroscopic. Reacts with most nonnoble metals such as iron, steel, building materials (such as cement). Sodium chloride is rapidly attached by bromine trifluoride. Violent reaction with lithium.
HAZARDOUS POLYMERIZATION: _____ May Occur __X__ Will Not Occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure: Eye Contact. Ingestion. Inhalation. Skin contact.
Toxicity Data: 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: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.
Chronic Effects on Humans: Causes adverse reproductive effects in humans (fetotoxicity, abortion) by intraplacental route. High intake of sodium chloride, whether from occupational exposure or in the diet, may increase risk of Toxemia of Pregnancy in susceptible women.
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, 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.
Extremely Hazardous Substance: 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.

Air (I.C.A.O.)
Proper Shipping Name: Chemicals, n.o.s.

SECTION 15 – REGULATORY INFORMATION

SARA TITLE III HAZARD CATEGORIES AND LISTS

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

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

SECTION 16 – OTHER INFORMATION

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