

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** AMMONIUM CHLORIDE

**Control Number:** 00165

**Product Description:** Inorganic Salt

### COMPANY IDENTIFICATION

**Supplier:** COLONIAL CHEMICAL SOLUTIONS, INC.

916 West Lathrop Avenue

Savannah, Georgia 31415

**24 Hour Emergency Telephone:** (800)-424-9300 CHEMTREC

**General Information:** (912) 236-1331

## SECTION 2 · HAZARDOUS IDENTIFICATION

### GHS Classification:

[ Health ]

Eye irritation (Category 2A)

Skin Irritation Category (3)

[ Environmental ]

Acute aquatic toxicity (Category 1)

[ Physical ]

None

### GHS Label elements, including precautionary statements

**Pictogram**



**Signal Word**

Warning

### Hazard statement(s)

H302 Harmful if swallowed.

H316 Causes skin irritation.

H319 Causes serious eye irritation.

### Precautionary statement(s)

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray

H262 do not get in eyes, on skin or on clothing.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P403+223: Store in a well ventilated place. Store in a tightly closed container.

## SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Ammonium Chloride	12125-02-9	≤ 100

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## SECTION 4 · FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause systemic toxicity with acidosis.

**Inhalation:** If heated, dust or fume may cause respiratory tract irritation. May be harmful if inhaled. Ammonium chloride fume may cause an asthma-like allergy. Future exposure may cause asthma attacks with shortness of breath, wheezing, coughing, and/or chest tightness.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

## SECTION 5 · FIRE FIGHTING MEASURES

**Extinguishing Media:** The substance is not combustible. Use extinguishing media appropriate to the surrounding fire. Containers can build up pressure in the event of a fire.

**Fire Fighting Procedures:** Use water spray to keep fire-exposed containers cool. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures.

**Fire Fighting Instructions:** This product is not defined as flammable or combustible and should not be a fire hazard.

**Fire and Explosion Hazards:** During a fire, irritating/toxic and corrosive fumes may evolve.

## SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Small Spill:** 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 according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## SECTION 7 · STORAGE AND HANDLING

**Handling:** Handle all chemicals with respect. Review the label, this MSDS and any other applicable information before use. Keep separated from incompatible substances. Use appropriate Personal Protective Equipment per Section 8. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product.

**Storage:** Material may be stored in tightly closed shipping containers, preferably the supplier's containers. Containers of this material may be hazardous when empty, since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do not use metal containers.

## SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide ventilation or other engineering controls to keep the airborne concentrations of dust or aerosols below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

**Exposure Limits:** Ammonium Chloride 10 mg/m<sup>3</sup> ACGIH 10 mg/m<sup>3</sup> OSHA

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** Wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined spaces, use a self-contained breathing apparatus.

**Other Equipment:** Eye wash station and shower in close proximity to use are advised.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Flash Point:</b> Non-flammable	<b>Flammability Limits:</b> Not applicable
<b>Decomposition Temperature:</b> 968 °F	<b>Specific Gravity:</b> 1.53
<b>Boiling Point:</b> 968 °F	<b>Volatile %:</b> Not determined
<b>Melting Point/Freezing Point:</b> 664 °F	<b>Evaporation Rate (BuAc=1):</b> Not determined
<b>Vapor Pressure:</b> 1 mmHg	<b>Solubility in Water:</b> Soluble
<b>Vapor Density (Air-1):</b> Not applicable	<b>pH:</b> 4.5-5.5 (50 g/l)
<b>Odor/Appearance:</b> White odorless crystal/granular powder	

## SECTION 10 - STABILITY AND REACTIVITY

**Stability:** Stable under normal use and storage conditions.  
**Conditions to Avoid:** Avoid contact with mineral acids, excessive heat and bases/alkalis  
**Incompatibility:** Carbon steel, aluminum, carbon, brasses, and nylon.  
**Hazardous Polymerization:** Will not occur under normal temperatures and pressures.  
**Hazardous Decomposition Products:** Thermal decomposition: after completely dry and heated to decomposition will produce sulfur oxides and aluminum oxides as well as HCl gas.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Eye:** Causes moderate eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause systemic toxicity with acidosis.

**Inhalation:** If heated, dust or fume may cause respiratory tract irritation. May be harmful if inhaled. Ammonium chloride fume may cause an asthma-like allergy. Future exposure may cause asthma attacks with shortness of breath, wheezing, coughing, and/or chest tightness.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

### Acute oral toxicity:

LD50 rat: 1650 mg/kg

### Acute inhalation toxicity:

No available data

### Acute dermal toxicity:

No available data

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** LC50 - Cyprinus carpio (Carp) - 209.00 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 3.98 mg/l - 96 h

**Bio-accumulative potential:** No published data.

**Mobility:** No published data.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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## SECTION 14 - TRANSPORTATION

**U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):**

**Proper Shipping Name:** Not a DOT Controlled Material

**Hazard Class:**

**UN Number:**

**Packaging Group:**

## SECTION 15 - REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 5000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard

#### SARA Section 313 (40 CFR 372) Hazard Categories:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Water Act:** This product contains Ammonium Chloride a chemical listed as Hazardous Substances under the CWA

**Clean Air Act:** None of the chemicals in this product are listed as Hazardous Substances under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16 - OTHER INFORMATION

**MSDS Revision Date:** January 2015

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.