SAFETY DATA SHEET

CHEMICAL DISTRIBUTION SOLUTIONS

SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: AMMONIUM CHLORIDE
Control Number: 00165
Product Description: Inorganic Salt

COMPANY IDENTIFICATION

Supplier: **Chemical Distribution Solutions**
1125 Oak St. Ste. 303
Conway, AR 72032

24 Hour Emergency Telephone: (800) 424-9300 CHEMTREC
General Information: (501) 978-1111

SECTION 2 · HAZARDOUS IDENTIFICATION

GHS Classification:

[Health]	**[Environmental]**	**[Physical]**
Eye irritation (Category 2A)	Acute aquatic toxicity (Category 1)	None
Skin Irritation Category (3)		

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

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/m3 ACGIH	10 mg/m3 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.

SECTION 9 · PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: Non-flammable
Decomposition Temperature: 968 ^{O}F
Boiling Point: 968 ^{O}F
Melting Point/Freezing Point: 664 ^{O}F
Vapor Pressure: 1 mmHg
Vapor Density (Air-1): Not applicable
Odor/Appearance: White odorless crystal/granular powder

Flammability Limits: Not applicable
Specific Gravity: 1.53
Volatile %: Not determined
Evaporation Rate (BuAc=1): Not determined
Solubility in Water: Soluble
pH: 4.5-5.5 (50 g/l)

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 · TOXILOGICAL 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.

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 data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.