

SAFETY DATA SHEET

CHEMICAL DISTRIBUTION SOLUTIONS

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: AMMONIUM NITRATE SOLUTION

Control Number: 00070

Product Description: Nitrate Salt

COMPANY IDENTIFICATION

Supplier: Chemical Distribution Solutions

1125 Oak St. Ste. 3030

Conway, AR 72032

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

General Information: (501) 978-1111

SECTION 2 - HAZARDOUS IDENTIFICATION

GHS Classification:

[Health]

Eye irritation Category (2A)

Skin Irritation Category (3)

Acute toxicity, Oral (Category 3)

[Environmental]

Chronic aquatic toxicity (Category 1)

Acute aquatic toxicity (Category 1)

[Physical]

Oxidizing solids (Category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal word: Danger

Hazard statement(s)

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

P330 Rinse mouth.

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Ammonium Nitrate	6484-52-2	50-54

SAFETY DATA SHEET

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

Ingestion: Rinse out mouth with water. Give several glasses of water. INDUCE vomiting. Get medical attention.

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.

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

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Ventilate the area and stop source of spill. Salvage and recycle as much material as possible. Eliminate sources of ignition. For small spills, use absorbent material such as towels or absorbent powders. Put all material into proper waste disposal container with lid tightly covered.

For larger spills, dike spill, recover free liquid, collect with an electrically protected vacuum cleaner or by wet-brushing, and use absorbent material to dry area and then rinse area with water. Put all material into appropriate waste containers. Avoid contaminating ground and surface water.

SECTION 7 · STORAGE AND HANDLING

Precautions: Keep locked up. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Use adequate mechanical ventilation equipment. Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists 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 Nitrate No data listed by any agency

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.

SAFETY DATA SHEET

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: Non-flammable	Flammability Limits: Not applicable
Autoignition Temperature: No published data	Specific Gravity: 1.11
Boiling Point: 212 °F	Volatile %: Not determined
Melting Point/Freezing Point: Not applicable	Evaporation Rate (BuAc=1): Not applicable
Vapor Pressure: 15 mmHg	pH: 4.5
Vapor Density (Air-1): Not applicable	Solubility in Water: Soluble
Odor/Appearance: Clear liquid with mild odor.	

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.
Conditions to Avoid: Avoid contact with excessive heat and strong oxidizers
Incompatibility: Acids, Powdered metals, Ammonia, Cyanides, Amines, Activated carbon
Hazardous Polymerization: Will not occur under normal temperatures and pressures.
Hazardous Decomposition Products: Thermal decomposition will produce oxides of nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:
Ingestion: Causes digestive tract irritation. May be harmful or fatal if swallowed.
Inhalation: Inhalation of mist or vapors cause irritation to the respiratory system.
Skin contact: Direct contact causes skin irritation.
Eye contact: Direct contact causes eye irritation, redness and stinging.

Acute oral toxicity:
LD50 rat: 2,800 – 4,500 mg/kg
Acute inhalation toxicity:
LC50 rat: >88.8 mg/L.
Acute dermal toxicity:
LD50 = > 5,000 mg/kg.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

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.

SAFETY DATA SHEET

SECTION 14 - TRANSPORTATION

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

Proper Shipping Name: Ammonium Nitrate, Liquid
Hazard Class: 5.1
UN Number: 2426
Packaging Group: 2

SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response 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 estimated to be 1000 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 Hazards:

Acute Health, Reactivity

SARA Section 313 (40 CFR 372) Hazard Categories: This material contains Ammonium Nitrate, Nitrate Compounds 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 does not contain any chemicals that are listed under the CWA.

California Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 - OTHER INFORMATION

MSDS Creation Date: September 2014

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

Health: 1

Flammability: 0

Reactivity: 3

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.