

MATERIAL SAFETY DATA SHEET

Medique Products
7701 N. Austin Ave.
Skokie, Illinois 60077
Phone: (847) 675-2955
FAX: (847) 675-0252

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SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME: Ammonium Nitrate Prill: Industrial Grade

CHEMICAL FORMULA: NH_4NO_3

CHEMICAL ABSTRACTS NUMBERS: 6484-52-2

SECTION II: INGREDIENTS

AMMONIUM NITRATE

Permissible Exposure Limit
Total Dust 15mg/m³
Respirable Dust 5mg/m³

PROPRIETARY MINERAL OIL COATING No Pel

SECTION III: PHYSICAL DATA

BOILING POINT: N/A

DENSITY: 47 lb/cubic foot

VAPOR DENSITY: N/A

VAPOR PRESSURE: N/A

pH: 5.4

MELTING POINT: 169°C/336°F

DECOMPOSITION TEMP: 210°C/410°F

EVAPORATION RATE: N/A

APPEARANCE & ODOR: white solid granules without odor

SOLUBILITY IN WATER: complete

SECTION V: REACTIVITY DATA

STABILITY: Stable under ambient conditions

CONDITIONS TO AVOID: Avoid exposing product to open flame and avoid storing product in a confining manner where there is a likelihood of fire

MATERIALS TO AVOID: Prevent inadvertent mixing with the aforementioned metals and organic substances such as solvents, oils, and lubricants as well as acids

PRODUCTS OF DECOMPOSITION: Oxides of nitrogen which act as accelerants to the process of combustion

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI: HEALTH HAZARD DATA

EFFECTS OF EXPOSURE:

Eyes: May cause irritation, redness and tearing.

Skin: Contact over extended periods with dry skin or for shorter periods with moist skin may cause irritation.

Inhalation: May cause irritation to mucous membranes, and nausea

CARCINOGENICITY RATINGS:

International Agency for the Research on Cancer - none

National Toxicology Program - none

OSHA: none

TOXICITY RATING:

Lethal dose (LD₅₀) - 5300 mg/kg which corresponds to a very low toxicity hazard

SECTION VIII: PERSONAL PROTECTION

Eyes - the use of ANSI approved eye protection is recommended where the likelihood of eye contact is expected.

Skin - the use of gloves is recommended to avoid skin irritation from prolonged exposure.

Respiratory - the use of a NIOSH approved particulate respirator is recommended in dusty conditions or where the PEL is likely to be exceeded.

Ventilation - general area ventilation normally sufficient.

SECTION IX: REGULATORY INFORMATION

OSHA HAZARD CLASS - Oxidizer

DOT HAZMAT SHIPPING:

Ammonium Nitrate Fertilizer
Hazard Division 5.1, packing group III
UN 2067

EPA SARA TITLE III - this material is subject to the reporting requirements of EPA 40 CFR part 370 "Hazardous Chemical Reporting", but not 40 CFR part 372 "Toxic Chemical Release Reporting".

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: ANTIFOAM General Use: Additive in the process of etching copper and brass.

COMPANY: UEI™ Systems, A Division of Universal Engraving, Inc. EMERGENCY CONTACT: 1-800-424-9300 United States and Canada
 9090 Nieman Rd. Overland Park, KS, USA 66214 01-763-627-3887 International
 1-800-821-8834 or 913-599-0244

2. HAZARDOUS INGREDIENTS: No hazardous ingredients. No CAS Number

3. HAZARDS IDENTIFICATION: White to off-white liquid.

Routes of Entry: Inhalation, Ingestion, Skin Absorption.

Health Hazards (Acute and Chronic): Minor eye irritant. Skin contact should not be expected to produce irritation under normal conditions. Inhalation exposure is low due to the dilution of precipitated silica in a silicone medium. Ingestion of product may cause nausea.
 Carcinogenicity: NA

Signs and Symptoms of Exposure: Headache, nausea and possible irritability.

4. FIRST AID MEASURES: In all cases call a physician immediately.

INGESTION: DO NOT induce vomiting unless instructed by a doctor or poison control center. Wash out mouth with water if the person is conscious. If vomiting occurs keep head below hips to prevent aspiration.

INHALATION: Remove to fresh air.

EYE CONTACT: Flush eyes with large amounts of water for at least 15 minutes.

SKIN CONTACT: Flush skin with soap and large amounts of water for at least 15 minutes.

5. FIRE FIGHTING MEASURES

Flash Point: Boils before flashes. Flammable Limits: NA Auto-ignition Temperature: 531° C

Extinguishing Media: Carbon Dioxide, Dry Chemical Powder, or Appropriate Foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus with full face piece operated in positive pressure mode and full protective clothing to prevent skin and eye contact. Do not use a direct stream of water.

Unusual Fire and Explosion Hazards: Product may produce a floating fire.

ACCIDENTAL RELEASE MEASURES: Wear protective clothing. Wipe up small quantities or absorb larger quantities in inert material such as clay, sand, or vermiculite. Dispose of by approved method in compliance with local, state, and federal regulations.

7. HANDLING AND STORAGE: Store at room temperature in a closed container made of polyolefin, fiberglass, rubber lined, or glass containers. Keep away from heat, light, fire, and sparks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION: Use only in a well-ventilated area. Wear chemical resistant rubber gloves, chemical safety goggles (Do not wear contact lenses.), chemical resistant body covering and boots. Safety shower and eye wash stations should be located in work area. Wash thoroughly after handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: > or = to 212° F	Vapor Pressure: Not Determined
Vapor Density (Air=1): Not Determined	Specific Gravity (Water=1): 1.001
Solubility in Water: Dispersible	pH: > or = to 4.4
Viscosity: Not Available	Evaporation Rate (n-Butyl Acetate=1): > 1
Melting Point: NA	Appearance: Cloudy, white liquid.

10. STABILITY AND REACTIVITY

Stability: Stable **Conditions to Avoid:** NA

Incompatibility: Inorganic acid and inorganic bases.

Hazardous Decomposition or By-products: Carbon monoxide, miscellaneous organic compounds, some possibly toxic.

Hazardous Polymerization: Does NOT polymerize.

11. OTHER INFORMATION

UEI™ Systems provides the information contained herein in good faith. The information is believed to be correct. However it is not all inclusive and should be used only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI™ Systems shall not be held liable for any damage resulting from handling or from contact with this product.