



#### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Ammonium Nitrate, Crystalline, ACS Reagent
PRODUCT NUMBER:	A300
COMPANY INFO:	<i>Phyto</i> Technology Laboratories® PO Box 12205, Shawnee, KS 66282-2205 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442 www.phytotechlab.com
EMERGENCY PHONE NUM (INFOTRAC):	IBER 1-800-535-5053 - US Only   1-352-323-3500 - International
RECOMMENDED USE:	For Research Use Only
RESTRICTIONS ON USE:	Products sold by <i>Phyto</i> Technology Laboratories® are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture:

**GHS** Classification:

H272 - Oxidizing solids (Category 3) H319 - Eye irritation (Category 2A)

#### GHS Label elements, including hazard and precautionary statements:



Warning Signal Word:

**Precautionary Statements:** 

Hazard Statements:

H272 - May intensify fire; oxidizer.

H319 - Causes serious eye irritation.

P210 – Keep away from heat. P220 – Store away from combustible materials

P221 - Take any precaution to avoid mixing with combustibles.

P264 – Wash skin thoroughly after handling P280 - Wear protective gloves/ protective clothing/ 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 attention

P370 & P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

#### Hazards not otherwise classified (HNOC) or not covered by GHS: - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Nitric Acid, Ammonium Salt

CAS No: 6484-52-2

Formula: NH4NO3

Molecular Weight: 80.04 g/mol use

EC-No.:	229-347-8					
Ingredien	ıt	CAS Number	Perce	nt	Hazardous	
Ammonium N	itrate	6484-52-2	>98%	, D	No exposure limits established by OSHA or ACGIH	
4. FIRST AID ME	ASURES					
General Advice:	Consult a area.	physician. Show t	his safety d	lata sh	eet to the doctor in attendance. Move out of dangerous	
<b>Route of Entry</b>		Symptoms			First Aid Procedures	
Ingestion	May caus	use irritation if swallowed		If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.		
Inhalation	May caus tract	ause irritation to respiratory		Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.		
Eye Contact	May caus	rect contact may cause irritation. ay cause redness, tearing, or urred vision.		Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. <b>Get medical attention if irritation persists.</b>		
Skin Contact		. May cause reddening, r inflammation.		Wash area thoroughly with soap and water. Remove and was contaminated clothing. <b>Get medical attention if irritation</b> <b>persists.</b>		
Most Important Sym	ptoms or Eff	ects, Both Acute ar	nd Delayed	:		
See section	2 and/or sect	ion 11				

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

# 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Dry chemical powder, Dry sand, or alcohol-resistant foam.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self- contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	No data available

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.		
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up an remove. Place material in a dry container and cover. Remove from the area. Flu spill area with water. Do not let product enter drains.		
7. HANDLING AND STORAGE			
Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Provide adequate ventilation where dust is formed keep away from heat and sources of ignition. No smoking. Wash thoroughly after use.		

Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.
	Protect from moisture. Product is hygroscopic.

Incompatibilities:	Reducing agents, Powdered metals, Strong acids
Recommended Storage Temperature:	Room Temperature

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	None
Threshold Limit Values (TLVs):	None
Engineering Controls:	Handle in accordance to general industrial hygiene and safety practice.
Personal Protective Equipment (PPE):	

Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	Appropriate respirator

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to V	White Crystals			
pH (1.60 g/L):	4.75 - 5.7	4.75 – 5.75			
Solubility:	Soluble ir	Soluble in Water			
Melting Range:	169 °C				
Vapor Density:	No data a	vailable			
Vapor Pressure:	No data a	vailable			
Specific Gravity:	No data a	No data available			
Odor:	Odorless	Odorless			
Odor Threshold:	No data a	No data available			
Viscosity:	No data a	No data available			
Relative Density:	1.72 g/cm <sup>3</sup> at 20°C (68 °F)				
Evaporation Rate:		N/A			
Initial Boiling Point Boiling Range:	and	210 °C (410 °F)			
Flammability (solid,	, gas):	No data available			
Partition coefficient n-octanol/water):	No data available				
Auto-ignition Temp	perature: No data available				
Decomposition Terr	perature:	No data available			
Flash Point (Closed	Cup):	No data available			
Flammable Limits:		Upper (%) – No data available	Lower (%) – No data available		

### **10. STABILITY AND REACTIVITY**

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use – is an oxidizer
Possibility of Hazard Reactions:	No data available
Conditions to Avoid:	No data available
Incompatibles Materials:	Reducing agents, Powdered metals, Strong acids
Hazardous Decomposition Products:	No data available

### 11. TOXICOLOGICAL INFORMATION

Toxicity:	LD <sub>50</sub> (Oral-Rat)(mg/Kg): LD <sub>50</sub> (Oral-Mouse)(mg/Kg): LD <sub>50</sub> (Dermal-Rat)(mg/Kg):		2,950 No data available >5,000	
Carcinogenicity:	NTP: IARC: OSHA Reg:	No No No		
Reproductive Toxicity: Specific Target Organ Toxicity:				on – may cause irritation available
Routes of Entry: NIOSH/RTECS NO:	Inhalation BR9050000			

# The toxicological properties of this product have not been thoroughly investigated

# 12. ECOLOGICAL INFORMATION

Toxicity:	No data available
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

### 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

# 14. TRANSPORT INFORMATION

Domestic (D.O.T.):	Proper Shipping Name:	Ammonium Nitrate		
	Hazard Class:	5.1	Packing Group:	III
	UN/NA:	UN: 1942		
	Labels:	Oxidizer		
	Marine Pollutant:	No		
International:				
IMDG:	Proper Shipping Name:	Ammonium Nitrate		
	Hazard Class:	5.1	Packing Group:	III
	Hazard Class: UN/NA:	5.1 UN: 1942	Packing Group:	III
			Packing Group:	III
	UN/NA:	UN: 1942	Packing Group:	III
	UN/NA: Labels: Marine Pollutant:	UN: 1942 Oxidizer No	Packing Group:	III
IATA:	UN/NA: Labels:	UN: 1942 Oxidizer	Packing Group:	III
IATA:	UN/NA: Labels: Marine Pollutant:	UN: 1942 Oxidizer No	Packing Group:	Ш

Labels:	Oxidizer
15. REGULATORY INFORMATION	4
TSCA:	Yes
SARA TITLE III:	
Section 302 (EHS) Ingredients:	No
-	AS No. 34-52-2
Section 304 (EHS/CERCLA) Ingredients	s: No
Section 311/312 Hazard:	Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know Compo	
Pennsylvania Right to Know Compone	Ammonium Nitrate ents: CAS No.: 6484-52-2 Ammonium Nitrate
New Jersey Right to Know Componen	ts: CAS No.: 6484-52-2 Ammonium Nitrate
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **16. OTHER INFORMATION**

HMIS Rating:	Health Hazard	Flammability	Physical Hazard	Personal Protection
	2	0	1	В
NFPA Rating:	Health Hazard	Fire Hazard	Instability	Special Hazard
	2	0	1	OX

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