
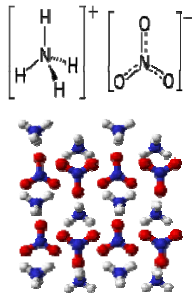






Material Safety Data Sheet

Ammonium Nitrate Porous Prills

Rev No.2(11 / 2011)

Released on: Jan-2010		Reviewed By: SHE Section		Prepared By: Quality Control Section	
1- Company & Product Identification					
 <p>Suez International Nitrate Co. (SINCO)</p>		P. O. Box 114 43713, Ataka, Suez, Egypt. Tel : + (2) 0623365483 + (2) 0623365484 Fax: + (2) 062 3365453 Email: sinco@sinco.com.eg		<p>Structure</p> 	
Common Names		Porous Prills Ammonium Nitrate (PPAN) Industrial Grade Ammonium Nitrate (IGAN) Low Density Ammonium Nitrate (LDAN)			
Formula		NH ₄ NO ₃			
Synonym		Low Density Ammonium Nitrate			
Chemical Family		Nitrate (oxidizer)			
Material Uses		Civil explosives & Industrial uses			
Protective Clothes		Gloves, protective glasses & Mask			
2- Hazardous identification					
NFPA Classification		DOT / TDG Pictograms		WHMIS Classification	
					
				HMIS	
				Health	1
				Flammability	0
				Reactivity	1
				PPE	E
					
3-Transportation Data					
CAS Number		6484-52-2			
UN Number		1942			
UN Pack Group		III			
IMO Hazard Class		5.1			
4- Compositions / Information on Ingredients					
Component Name		Percentage by Weight		CAS No	
Ammonium Nitrate		99.5 – 99.8 %		6484-52-2	
Conditioning Agent		≈ 0.2 %		--	



5-Stability &Reactivity Data			
Stability	Stable under normal ambient condition of temperature & pressure		
Instability Temperature &Pressure	Not available		
Remarks on Reactivity	Hygroscopic material absorb moisture from the air		
Corrosivity	Slightly corrosive to Zinc & Copper		
	Non-corrosive to stainless steel (304 or 316)		
Remarks on Corrosivity	Avoid contact with water		
	Slow hydrolysis may slowly corrode metals		
Avoid mixing Ammonium Nitrate with wood, organic materials, Sulfur, Chlorides, Phosphorus, Acids, Alkali, flammable & combustible liquid, finely powdered metals & Charcoals			
6-Handling &Storage			
Precautions	Keep away from heat, combustible material & reducing agent		
	Take precautions against electrostatics discharges		
Storage	Store in a dry, cool & well-ventilated area		
	Keep away from incompatible materials		
7-Hazard Identification			
Eyes & Skin	Irritation		
Inhalation	Slight irritation		
Ingestion	May cause cyanosis, nausea, vomiting, vertigo, abdominal pain & rapid heart beat		
Potential Acute Health Effects	Symptoms of overexposure acute cyanosis, nausea, vomiting, vertigo, abdominal pain & rapid heart beat		
	Convulsion & death can occur		
Potential Chronic Health Effect	No information		
Carcinogenicity Lists	IARC Monograph No	NTP No	OSHA No
8-First Aid Measures			
Eyes Skin	Immediately flush with water at least 15 min		
	Wash with mild soap then water		
Inhalation	Provide fresh air & get prompt medical attention		
Ingestion	If swallowed & the person is conscious , give large amount of water & induce vomiting		
9-Exposure Limits			
Alberta TWA	10 mg/m ³ Inhalable		
	3 mg/m ³ Respirable for particulate		
Fed OSHA PEL	15 mg/m ³ Total dust		
	5 mg/m ³ Respirable fraction for particulate		
10-Accident Release Measure			
Small Spill	Prevent contamination with incompatible materials & keep away from heat		
	If uncontaminated, recover & re-use as product		
Large Spill	Prevent additional discharge, if possible to do so without hazard		
	Prevent from entering any water sources , recover & re-use as product		



11- Fire Fighting Measure	
This product not flammable	
Flash Point	Not applicable
Auto Ignition Temp.	Not applicable
Lower Explosive Limit	Not applicable
Upper Explosive Limit	Not applicable
Unusual Firefighting & Explosion Hazards	Flood burning Ammonium Nitrate with large quantities of straight stream of water If explosion is expected, evacuate surrounding area
Extinguishing Media	Recommended large quantities of water Avoid: Carbon dioxide, dry chemical, & foam
Special Firefighting Procedures & Equipment	Don't use salt water, fight fire from protected location as steam eruptions are common & splashes from molten Ammonium Nitrate are possible Decomposition gases are toxic, fight fires from upwind
Product of Combustion	Material not flammable but thermal decomposition may result flammable/toxic gases, these gases are (NO, NO₂ & NH₃)
Explosion Hazard (in the presence of various substance)	Ammonium Nitrate is an oxidizer which may react readily with other materials, especially upon heating The material can explode when subject to sudden shock, pressure, or high temperature (Avoid Temp. above 210°C) Avoid storage in poorly ventilated spaces Avoid storage with incompatible materials
12-Toxicological Information	
Ecotoxicity	Low toxicity for humans or animals under normal condition of use Aquatic / Marine toxicity: will release Ammonium ions which is a toxic hazard to fish, Avoid release to watercourse Product will promote algae growth which may degrade water quality & test Limits of Nitrate in potable water should be maintained under 10 mg/m ³
13-Physical & Chemical Properties	
Nitrogen Content %	34.5% (min)
Physical Appearance	Off white prills
pH 10% soln.	5.0
Moisture Content %	0.15 % (max)
Organic Coating %	0.1 % (approx.)
Combustible material expressed as TOC %	0.2 % (max)
Inert Coating	FREE
Bulk Density (Kg/m³)	700 – 780
Total Insoluble Matter %	0.2 % (max)
AN Molecular Mass (g/mol)	80.043
Melting Point °C	169.6
Boiling Point °C	210 (approx.) decomposition
Solubility	Highly soluble in water (1.920 g/l @ 20 °C) Soluble in alcohols
Specific Gravity @ 25°C	1.72 (100 % Basis)



14- Disposal Consideration

Recycle to process, if possible.

If not, recover and place material in a suitable container for intended use or disposal. Ensure disposal complies with government requirements and local regulations

The most common is recover product for use as a fertilizer if possible

15- Regulatory InformationOSHA:

This product is considered a hazardous material under criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.120

SARA TITLE III:

a. EHS (Extremely Hazardous Substances) List: Not Listed (EPA, 1992a)

b. EHS RQ (Reportable Quantity): No RQ established.

c. TPQ (Threshold Planning Quantity): None

d. As distributed by Terra Mississippi Nitrogen, Inc., this product contains no compounds subject to reporting under Section 313 of SARA III and 40 CFR 372

however, these federal regulations do contain reporting requirements regarding water solutions of ammonia and nitrates.

Additionally, the following federal environmental statutes apply to this product: SARA Title III, Sections 311 & 312 40 CFR 37.)

CERCLA Hazardous Substances List: Not listed

TSCA Inventory:

Listed (RTECS, 1993)

16- Other Information

This MSDS released on Jan/2010 then modified at Jan/ 2011 (containing 11 sections only)

Then completed to 16 section at Nov 2011

The information and recommendations are taken from data contained in independent industry-recognized references including but not limited to NIOSH, OSHA, NFPA, D.O.T. ERG, the TFI Product Testing Program, MEDITEXT, HAZARD TEXT and SAX's Dangerous Properties of Industrial Materials - ninth edition.

SUEZ INTERNATIONAL NITRATE CO. (SINCO) IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY THE UNSAFE USE, STORAGE, TRANSPORTATION OR HANDLING OF THIS MATERIAL

