

Sep 08 00 11:45a

RAPID RID

(905) 820-9226

P. 2



Agrico Canada Limited
2896 Slough St., Unit #6
Mississauga, Ontario
L4T 1G3

Ammonium Nitrate Fertilizer

Cold Pack ACM51013

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS NUMBER ▶ ACL-003 ~~7547 133~~ REV 10/98

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SECTION 1		NAME
PRODUCT ▶	Ammonium Nitrate	
CHEMICAL/ SYNONYMS ▶	Norway Saltpeter, AN	
CHEMICAL FAMILY ▶	Nitrate	
FORMULA	NH ₄ NO ₃	C.A.S. NUMBER ▶ 6484-52-2

TORONTO EMERGENCY ASSISTANCE (905) 672-5700
CANUTEC 24 HOUR EMERGENCY (513) 995-6666

SECTION II			INGREDIENTS
			COMPOSITION
Hazardous Ingredients	%	TLV	
Ammonium Nitrate	60 - 100%	Not listed	

SECTION III				PHYSICAL DATA	
BOILING POINT (0°C) ▶	210@1.47 kPa	MELTING POINT (0°C) ▶	169	VAPOR PRESSURE (mmHg) ▶	NA
SPECIFIC GRAVITY (H ₂ O = 1) ▶	1.725@25°C	% VOLATILE BY VOLUME ▶	NA	VAPOR DENSITY (AIR = 1) ▶	NA
SOLUBILITY IN WATER ▶	Soluble	EVAPORATION RATE (BUTYL ACETATE = 1) ▶	NA	MOLECULAR WEIGHT ▶	NA
PHYSICAL STATE ▶	Solid	DENSITY ▶	960-1020 kg/m ³ 60-64 lb/cu. ft.	pH ▶	5.9@10% w/w in water

APPEARANCE AND ODOR

Ammonium Nitrate is free-flowing, odorless, hygroscopic, tan and is in the form of prills.

SECTION IV		REACTIVITY
STABILITY ▶ <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	HAZARDOUS POLYMERIZATION ▶ <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	
CONDITIONS AND MATERIALS TO AVOID		
Avoid excessive amounts of heat and all possible ignition sources. Avoid oxidizable materials, metal powder, copper, fuels (eg. lubricants, machine oils), fluorocarbon lubricants, acids, corrosive liquids, chlorates, sulphur, charcoal, coke and sawdust.		

HAZARDOUS DECOMPOSITION PRODUCTS

Toxic gases and vapors (oxides of nitrogen) will be released by thermal decomposition (about >300°C). At higher temperatures, decomposition may be explosive.

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SECTION VIII EMERGENCY AND FIRST AID PROCEDURES**EYE CONTACT:**

Immediately flush eyes with running water for a *minimum* of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention **IMMEDIATELY**.

SKIN CONTACT:

Flush skin with running water then continue flushing with running water to a *minimum* of 20 minutes. Start flushing while removing contaminated clothing. If irritation *persists*, repeat flushing. Obtain medical attention **IMMEDIATELY**.

INHALATION:

Move victim to fresh air. Give artificial respiration **ONLY** if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing **AND** no pulse. Obtain medical attention **IMMEDIATELY**.

INGESTION:

If victim is alert and not convulsing, give 1/2 to 1 glass of water to dilute material. **DO NOT** induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention **IMMEDIATELY**.

NOTE TO THE PHYSICIAN:

Individuals suffering from chronic lung diseases may have their conditions aggravated by heavy dust exposure.

SECTION IX PERSONAL PROTECTION INFORMATION**RESPIRATORY PROTECTION**

Dust is irritating to the nose, throat and respiratory tract, and may cause coughing and sneezing.

ENGINEERING CONTROLS

Local exhaust ventilation preferred.

SKIN PROTECTION

Use gloves and protective clothing made from cotton when handling dry fertilizer. Prolonged and repeated contact may cause mild irritation.

EYE PROTECTION

Safety glasses with side shields are recommended to prevent eye contact. May cause irritation, redness and pain.

OTHER PROTECTIVE EQUIPMENT

Apron and boots. Safety shower & eye bath located close to chemical exposure area.

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SECTION V FIRE AND EXPLOSION HAZARDS			
FLASH POINT AND METHOD USED Non Flammable		FLAMMABLE LIMITS % VOLUME IN AIR	LOWER NA UPPER NA
EXTINGUISHING MEDIA Use water only in the form of a fog.			
SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS Use water spray to cool fire-exposed containers or structures. Use water spray to disperse vapors; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.			
AUTOIGNITION TEMPERATURE: NA °C NA °F			
UNUSUAL FIRE AND EXPLOSION HAZARDS Attempts to smother a fire involving ammonium nitrate may be ineffective as it is its own oxygen source. Ammonium nitrate may detonate if contaminated with organics or oxidizable material or if heated while confined.			

SECTION VI HEALTH INFORMATION			
PERMISSIBLE EXPOSURE LIMIT (PEL) NONE		ACGIH THRESHOLD LIMIT VALUE (TLV) NA	
LISTED IN: IARC MONOGRAPHS No NTP LIST No OSHA No			
HEALTH HAZARD CLASSIFICATION NA		PRIMARY ROUTE(S) OF ENTRY Ingestion	
SYMPTOMS OF OVEREXPOSURE ACUTE: Contact with skin and eyes may cause mild skin irritations. CHRONIC: No chronic effects found, slight irritant.			
AGGRAVATED MEDICAL CONDITION None.			
TOXIC DATA Ammonium Nitrate LD ₅₀ (oral, rat) = 4820 mg/kg (1)			

SECTION VII STORAGE AND SPECIAL PRECAUTIONS	
HANDLING AND STORING PRECAUTIONS Store in a cool, well ventilated area. Do not expose sealed containers to temperatures above 49°C (120°F). Keep away from heat, sparks and flame. Keep containers closed.	
OTHER PRECAUTIONS Use only with adequate ventilation. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing thoroughly before re-use.	

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SECTION X TRANSPORTATION REQUIREMENTS	
DEPARTMENT OF TRANSPORTATION	
Shipping Class / Division : 5.1	
PROPER SHIPPING NAME	IDENTIFICATION NUMBER (PIN)
Ammonium Nitrate Fertilizer	UN 2067
	PACKING GROUP
	III
OTHER REQUIREMENTS	
Comply with the Transportation of Dangerous Goods Act and Regulations when shipping.	

SECTION XI EMERGENCY ACTION — (SPILL OR LEAK)
EMERGENCY ACTION:
Steps to be taken in the event of a spill or leak: Stop leak or spill. Swoop or shovel into containers for reclaim or disposal. Notify government authorities if spill is significant.
Environmental Effects: Can be dangerous if allowed to enter drinking water intakes. Harmful to aquatic life in low concentrations. Fish toxicity: 4.2 mg/l
Deactivating Chemicals: Remove slowly into a large container of water. Add soda ash slowly by stirring. After 24 hours, decant or siphon into another container. Neutralize with 6M-HCl.
Waste Disposal Methods: Dispose of waste material at an approved landfill site in accordance with local, provincial or federal regulations. Do not dispose of waste with normal garbage or in local sewage system.

FOOTNOTES:
ADDITIONAL INFORMATION AND SOURCES USED
1. RTECS - Registry of Toxic Effects of Chemical Substances, Vol. I-III, and the 1983 supplement to the 1981-1982 Edition, Volumes I & II, Richard J. Lewis Sr., Doris V. Sweet, ed., National Institute for Occupational Safety and Health, U.S. Dept. of Health and Human Services, Cincinnati, 1984.

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