



Agrico Canada Limited
2896 Slough Street, Unit #6
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Nitrogen Fertilizer Solution

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS NUMBER ► ACL-001 (REV. JAN 2009)

PAGE 1 OF 4

SECTION I		NAME	
PRODUCT ►	Urea Ammonium Nitrate Solution		
CHEMICAL/ SYNONYMS ►	UAN Solution 28% UAN Solution 32%		
CHEMICAL FAMILY ►	Nitrogen Solution		
FORMULA ►	NH ₄ NO ₃ + CO(NH ₂) ₂ + H ₂ O	C.A.S. NUMBER ►	None

**AGRICO (MISSISSAUGA)
EMERGENCY ASSISTANCE
(905) 672-5700**

**CANUTEC
24 HOUR EMERGENCY
(613) 996-6666**

SECTION II				INGREDIENTS	
COMPOSITION		%	CAS NUMBER		
Urea		29 – 37%	57-13-6		
*Ammonium Nitrate		37 – 47%	6484-52-2		
Free Ammonia		0.05%	7664-41-7		
Water		16 – 34%			
* Ammonium Nitrate not regulated hazardous when in concentrations below 70% (TDG)					

SECTION III						PHYSICAL DATA	
BOILING POINT (0°C) ►	225	MELTING POINT (0°C) ►	N/A	VAPOR PRESSURE (mmHg) ►	<1 @ 38°C		
SPECIFIC GRAVITY (H ₂ O = 1) ►	28% 1.280 32% 1.327	% VOLATILE BY VOLUME ►	N/A	VAPOR DENSITY (AIR = 1) ►	N/A		
SOLUBILITY IN WATER ►	100%	EVAPORATION RATE (BUTYL ACETATE = 1) ►	N/A	MOLECULAR WEIGHT ►	172		
PHYSICAL STATE ►	Liquid	DENSITY lbs/U.S. gal ►	@ 16°C 28% 10.67 32% 11.08	pH ►	6.5 – 7.4		

APPEARANCE AND ODOR

Color may be clear, green, or pink. It may have a slight ammonia (pungent) color.

Salting Out Temperature °C

28% 32%
-18° 0°

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

Chlorine and hypochlorite.

HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia and oxides of nitrogen.

SECTION VIII EMERGENCY AND FIRST AID PROCEDURES	
EYE CONTACT	Flush eyes immediately and thoroughly with water. Get medical attention if irritation persists.
SKIN CONTACT	Wash affected parts thoroughly with running water for a minimum of 20 minutes. Obtain medical attention if irritation persists.
INHALATION	Generally not considered an inhalation hazard. Confined spaces may have some ammonia odor. Remove to fresh air. If discomfort continues, seek medical attention.
INGESTION	If the person is conscious, drink large quantities of water and get medical attention.
NOTE TO THE PHYSICIAN	Ingestion of large quantities may produce methemoglobinemia.

SECTION IX PERSONAL PROTECTION INFORMATION	
RESPIRATORY PROTECTION	None required under normal conditions. Confined space entry procedure should be followed when entering vessels that have contained UAN solution. Use a NIOSH/MSHA approved respirator if required.
ENGINEERING CONTROLS	Not required under normal conditions. Local exhaust ventilation recommended.
SKIN PROTECTION	Rubber coated gloves and suitable clothing to minimize skin exposure are recommended.
EYE PROTECTION	Wear chemical splash goggles, if exposed to splashing material.
OTHER PROTECTIVE EQUIPMENT	Washing facilities should be available.

SECTION X TRANSPORTATION REQUIREMENTS	
DEPARTMENT OF TRANSPORTATION	
Not regulated (Under the TDG Act).	
PROPER SHIPPING NAME	IDENTIFICATION NUMBER (PIN)
Not regulated	N/A
	PACKING GROUP
	N/A
OTHER REQUIREMENTS	
None	

SECTION XI EMERGENCY ACTION – (SPILL OR LEAK)	
EMERGENCY ACTION	
Keep unnecessary people away, and isolate hazard area.	
SMALL SPILLS	
Stop leak, if you can do so without risk. Collect product for recovery and use as a fertilizer.	
LARGE SPILLS	
For release to land, contain discharge by constructing dykes or applying inert absorbent. Keep out of streams. Check for contamination of drinking water supply. Notify applicable government authority if release is reportable or could adversely affect the environment.	
FOOTNOTES	
Note: N/A means Not Applicable.	

DISCLAIMER

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