



ACTIVE
AgriScience

tel.: 604.864.0154
 fax: 604.864.0156
 t.free: 1.855.400.0154
 #209 - 31136 Peardonville Rd,
 Abbotsford, BC,
 V2T 6K2, Canada
activeagriscience.com

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER		ARM U™					
PRODUCT USE		Liquid nitrogen stabilizer for urea fertilizers		USE RESTRICTIONS		For professional use only. Use only as labeled	
MANUFACTURERS NAME		Active AgriScience Inc.		DISTRIBUTORS NAME			
STREET ADDRESS		209-31136 Peardonville Rd		STREET ADDRESS			
CITY	Abbotsford	PROVINCE	British Columbia, Canada	CITY		COUNTRY	
POSTAL CODE	V2T 6K2	EMERGENCY TELEPHONE	1-604-864-0156	POSTAL CODE		EMERGENCY TELEPHONE	
DATE	December 16, 2016	PREPARED BY	Active AgriScience Inc.	PHONE NUMBER			

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

HPR (WHMIS 2015)	Eye Damage / Irritation: Category 1 Skin Corrosion / Irritation: Category 2 Specific Target Organ Toxicity (STOT); Single exposure: Category 3 (respiratory irritation) Specific Target Organ Toxicity (STOT); Single exposure: Category 2 (kidneys) Reproductive toxicity: Category 1B
OSHA Hazard Communication Standard (29 CFR 1910.1200)	Eye Damage / Irritation: Category 1 Skin Irritation: Category 2 Specific Target Organ Toxicity (STOT); Single exposure: Category 3 (respiratory irritation) Specific Target Organ Toxicity (STOT); Single exposure: Category 2 (kidneys) Reproductive toxicity: Category 1B



HAZARD STATEMENTS: Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

FIRST AID: IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical advice/attention

STORAGE: Store locked up. Store in a well-ventilated place. Keep container tightly closed

DISPOSAL: dispose of this product and its container in accordance with Federal, state, provincial, and local regulations



ACTIVE
AgriScience

tel.: 604.864.0154
fax: 604.864.0156
t.free: 1.855.400.0154
#209 - 31136 Peardonville Rd,
Abbotsford, BC,
V2T 6K2, Canada
activeagriscience.com

MATERIAL SAFETY DATA SHEET

ARM UTM

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS#	CONCENTRATION
N-(n-Butyl)-thiophosphoric triamide	94317-64-3	15-25%
propane-1,2-diol	57-55-6	30-50%
N-methyl-2-pyrrolidone	872-50-4	30-70%
1,2-Ethanediol	107-21-1	30-50%

SECTION 4 – FIRST AID MEASURES

EYE CONTACT	Immediately flush eyes with a large gentle stream of water for 15 minutes while holding the upper and lower eyelids open. Seek immediate medical attention
SKIN CONTACT	Immediately flush skin with plenty of water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.
INHALATION	Move victim to fresh air. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If not breathing, give artificial respiration Seek medical attention if irritation persists.
INGESTION	Rinse mouth. Never give anything by mouth to an unconscious person. DO NOT induce vomiting without physician's direction. If vomiting occurs naturally, have victim lean forward with head down to avoid breathing in vomit, rinse mouth. Seek medical attention if you feel unwell.
Most Important Symptoms, both acute & delayed	Risk of serious damage to the eyes. Causes skin and respiratory irritation
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Effects may be delayed.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE	Product will not burn or support combustion
MEANS OF EXTINCTION	Use extinguishing methods appropriate for the surrounding fire. Do not use a water jet as this may spread the fire.



ACTIVE
AgriScience

tel.: 604.864.0154
 fax: 604.864.0156
 t.free: 1.855.400.0154
 #209 - 31136 Peardonville Rd,
 Abbotsford, BC,
 V2T 6K2, Canada
activeagriscience.com

MATERIAL SAFETY DATA SHEET

ARM UTM					
FLASHPOINT & METHOD	Not applicable	UPPER FLAMMABLE LIMIT	Not applicable	LOWER FLAMMABILITY LIMIT	Not applicable
AUTO IGNITION TEMPERATURE	Not applicable	SENSITIVITY TO IMPACT	Not available	SENSITIVITY TO STATIC DISCHARGE	Not available
HAZARDOUS COMBUSTION PRODUCTS		Toxic, irritating and/ or corrosive gases may be released during a fire			
SECTION 6 – ACCIDENTAL RELEASE MEASURES					
LEAK & SPILL PROCEDURES	<p>Wear personal protective equipment outlined in SECTION 8. Ventilate area of spill. Keep out of low areas. Remove sources of ignition.</p> <p>Large Spills: Dike spilled material to contain spill if necessary. Adsorb with inert material (clay cat litter, dry sand, and earth. Place recovered material into clean, dry containers for disposal. Flush area with water, following recovery. Do not flush rinse water to drain or the environment</p>				
SECTION 7 – HANDLING AND STORAGE					
HANDLING	Do not handle until all safety precautions have been read and understood. Do not get in eyes, or skin. Do not breathe mist/spray. Wear protective gloves, and eye protection – See SECTION 8 Wash hands before eating, drinking, smoking and when leaving work				
STORAGE	Store in a cool, dry, well ventilated area away from food or feed storage				
INCOMPATIBLE MATERIALS	Not available				
SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION					
EXPOSURE LIMITS	Canada OEL: N-methyl-2-pyrrolidone: TWA 400 mg/m ³ OSHA: Not available				
ENGINEERING CONTROLS	Ensure adequate ventilation when handling or applying this product. Follow all label instructions. Follow manufacturers' instructions for cleaning / maintaining personal protective equipment. If mists are present and ventilation is absent or poor, use an air purifying respirator. Provide eye wash station in area where product is handled.				
PERSONAL PROTECTIVE EQUIPMENT					
Skin	Wear neoprene gloves. CHANGE GLOVES FREQUENTLY. Chemical resistant coveralls when handling or applying this product are recommended				
Eyes	Wear chemical goggles when handling or applying product				



ACTIVE
AgriScience

tel.: 604.864.0154
 fax: 604.864.0156
 t.free: 1.855.400.0154
 #209 - 31136 Peardonville Rd,
 Abbotsford, BC,
 V2T 6K2, Canada
activeagriscience.com

MATERIAL SAFETY DATA SHEET

ARM UTM					
Respirator	Use an approved air purifying respirator if mists are present and ventilation is absent or poor				
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES					
PHYSICAL STATE	Liquid	APPEARANCE	Not available	COLOUR	Orange
VISCOSITY	Not available	BOILING POINT	Not available	FREEZING POINT	Not available
EVAPORATION RATE	Not available	SPECIFIC GRAVITY	1.08-1.1 g/cm ³	ODOUR	Not available
PH	6.5 – 7.0	SOLUBILITY IN WATER	Miscible in water	ODOUR THRESHHOLD	Not available
SECTION 10 – STABILITY AND REACTIVITY					
CHEMICAL STABILITY		Stable under normal conditions of use and storage			
INCOMPATABILITY WITH OTHER SUBSTANCES		Acids, strong reducing agents, strong oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCTS		Toxic and/or irritating gases may be released during a fire: carbon oxides, nitrogen oxides, Sulphur oxides			
SECTION 11 – TOXICOLOGICAL INFORMATION					
ACUTE TOXICITY		Mixture is not acutely toxic			
CHRONIC TOXICITY		Not available			
EYE / SKIN IRRITATION		Causes serious eye damage and skin irritation. May be absorbed through skin			
SENSITIZATION		Not available			
CARCINOGENICITY		No component of this product present at levels ≥ 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, or ACGIH			
REPRODUCTIVE TOXICITY		May damage fertility or unborn child			
MUTAGENICITY		Not available			
Possible delayed effects		N-methyl-2-pyrrolidone: effects may be delayed. Animal studies show adverse effects to liver and kidneys.			
SECTION 12 – ECOLOGICAL INFORMATION					



ACTIVE
AgriScience

tel.: 604.864.0154
fax: 604.864.0156
t.free: 1.855.400.0154
#209 - 31136 Peardonville Rd,
Abbotsford, BC,
V2T 6K2, Canada
activeagriscience.com

MATERIAL SAFETY DATA SHEET

ARM UTM	
ECOTOXICITY	Not available
SECTION 13 – DISPOSAL CONSIDERATIONS	
WASTE DISPOSAL	Dispose of this product and its container in accordance with Federal, State, Provincial and local regulations
SECTION 14 – TRANSPORT INFORMATION	
SHIPPING	TDG not a dangerous good for transport DOT: not a dangerous good for transport
SECTION 15 – REGULATORY INFORMATION	
This SDS is prepared to comply with the Global Harmonized System of Chemical Classification and Labeling (GHS) and conforms to the requirements of HPR (WHMIS 2015) & OSHA Hazard Communication Standard (29 CFR 1910.1200)	
SECTION 16 – OTHER INFORMATION	
<p>To the best of our knowledge, the information contained herein is current and correct as of the date of this SDS, however, the information and recommendations are presented without warranty, representation or license of any kind, with respect to their accuracy, or completeness, and the seller, supplier and manufacturer (Supplier) of this material or their affiliates, disclaim all liability for reliance on such information and recommendations.</p> <p>Final determination of the suitability of any material is the sole responsibility of the buyer or the user (recipient). All materials may present unknown hazards and should be used with caution. The recipient assumes all risk in connection with the use of this material and assumes all responsibility for ensuring the material is used in a safe manner in compliance with applicable environmental, and health and safety laws.</p> <p>The supplier does not warrant the merchantability of this material or the fitness of the material for any particular use and assumes no responsibility for injury or damage caused directly or indirectly by the use of this material.</p>	