



MATERIAL SAFETY DATA SHEET

QUICK IDENTIFIER

SECTION I - IDENTITY	
MANUFACTURER'S NAME HUNTINGTON LABORATORIES, INC.	EMERGENCY TELEPHONE NO. 219/356-8100
ADDRESS (Number, Street, City, State, and Zip Code) 970 E. Tipton Street, Huntington, IN 46750	
CHEMICAL NAME AND SYNONYMS Ammonium Nitrate and Urea	TRADE NAME AND SYNONYMS Turf Leader Liquid Fertilizer 25-0-0
CHEMICAL FAMILY Fertilizer	FORMULA N/A

SECTION II - HAZARDOUS INGREDIENTS			
CAS NO.	PRINCIPAL HAZARDOUS COMPONENT(S)	%	TLV (Units)
6484-52-2	Ammonium nitrate	38-42	N/A
	In pure state, this is an oxidizer and an explosive.		
	However, at 38-42% in water it is not known to be or		
	considered a hazard of this type.		

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	212	SPECIFIC GRAVITY (H ₂ O = 1)	1.26
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	70
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (_____ = 1)	N/A
SOLUBILITY IN WATER	N/A	REACTIVITY IN WATER	N/A
APPEARANCE AND ODOR	Clear liquid, faint ammoniacal odor	pH	7.5

SECTION IV - FIRE AND EXPLOSION DATA			
FLASH POINT (Method used)	None, TOC	FLAMMABLE LIMITS	LOWER UPPER
EXTINGUISHING MEDIA	Water	AUTO-IGNITION TEMPERATURE	N/A
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus approved by NIOSH. Use water spray to keep container cool. If material is evaporated to dryness, special hazards threaten. (See Section II).			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

SECTION V - PHYSICAL HAZARDS			
STABILITY	UNSTABLE	CONDITIONS TO AVOID	Evaporation or other heating in closed pipes or
	STABLE	X	other containers.
INCOMPATIBILITY (Materials to avoid) Strong oxidants, easily oxidizable materials and water-reactive materials.			
HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition yields ammonia and oxides of nitrogen.			
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	N/A

SECTION VI - HEALTH HAZARD DATA					
THRESHOLD LIMIT VALUE N/A					
Effects of Overexposure					
1. Inhalation Prolonged breathing may cause respiratory irritation.					
2. Eyes May cause irritation.					
3. Skin May cause irritation.					
4. Ingestion May cause blood disorders (methemoglobinemia) in infants. Symptoms may include					
Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
OSHA Permissible Exposure Limit N/A	ACGIH Threshold Limit Value	N/A	Other Exposure Limit Used	N/A	
Emergency and First Aid Procedures					
1. Inhalation Remove to fresh air.					
2. Eyes Flush with flowing water for 15 minutes. If irritation persists, call a physician.					
3. Skin Flush with flowing water. If irritation persists, call a physician.					
4. Ingestion If conscious, immediately give 2 to 4 glasses of water and induce vomiting with **excessive action of kidneys and bowels.					

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Flush with water. Mop or absorb large quantities and place into metal or plastic drums for disposal.	
WASTE DISPOSAL METHOD	
Large quantities in landfill. Check applicable local, state, and federal regulations.	

SECTION VII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
Not required for normal ventilation. If working in a mist, use a NIOSH approved mist respirator.			
VENTILATION	LOCAL EXHAUST X	SPECIAL	
	MECHANICAL (General)	OTHER	
PROTECTIVE GLOVES		EYE PROTECTION	
Rubber if sores and cuts.		Goggles or face shield.	
OTHER PROTECTIVE EQUIPMENT			
Protective clothing if contact is prolonged or repeated.			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTION TO BE TAKEN IN HANDLING AND STORING	
Keep from freezing. Keep in locked storage out of reach of children. Keep from heat. Avoid breathing mist and minimize contact.	
OTHER PRECAUTIONS	
If frozen, warm and stir.	

Prepared by Clem L. Harris Title Technical Service Director
 Signature Clem L. Harris Date May 2, 1986



HUNTINGTON LABORATORIES, INC., Huntington, IN 46750
 • Lansdale, PA 19446 • Dallas, TX 75227 • Oakland, CA 94621
 • Montreal, Quebec, Canada H3T 1V3

***finger to back of throat. Get medical attention.