



QUICK IDENTIFIER

**MATERIAL SAFETY DATA SHEET****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 N/A	TRADE NAME AND SYNONYMS Turf Leader Balanced Liquid Fertilizer 20-1-4-1-1	
CHEMICAL FAMILY Fertilizer	FORMULA N/A	

**SECTION II - HAZARDOUS INGREDIENTS**

CAS NO.	PRINCIPAL HAZARDOUS COMPONENT(S)	%	TLV (Units)
7697-37-2	Nitric Acid	7.7	N/A
1310-58-3	Potassium hydroxide	10.5	N/A

**SECTION III - PHYSICAL DATA**

BOILING POINT (°F.)	212	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1.24
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	65
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (_____ = 1)	N/A
SOLUBILITY IN WATER	100%	REACTIVITY IN WATER	None
APPEARANCE AND ODOR	Clear liquid, faint odor	pH	7.2-7.5

**SECTION IV - FIRE AND EXPLOSION DATA**

FLASH POINT (Method used)	None TOC	FLAMMABLE LIMITS	LOWER	UPPER
EXTINGUISHING MEDIA	N/A	AUTO-IGNITION TEMPERATURE	N/A	
SPECIAL FIRE FIGHTING PROCEDURES	N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS	N/A			

**SECTION V - PHYSICAL HAZARDS**

STABILITY	UNSTABLE	CONDITIONS TO AVOID
	STABLE	X N/A
INCOMPATIBILITY (Materials to avoid)	N/A	
HAZARDOUS DECOMPOSITION PRODUCTS	N/A	
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		Should not cause respiratory irritation.					
1. Inhalation							
2. Eyes		May cause irritation.					
3. Skin		May cause irritation.					
4. Ingestion		May be harmful if swallowed.					
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	ACGIH Threshold Limit Value	N/A	Other Exposure Limit Used	N/A			
Emergency and First Aid Procedures							
1. Inhalation		Move to fresh air.					
2. Eyes		Flush with flowing water for 15 minutes. Call a physician immediately.					
3. Skin		Flush with flowing water for 15 minutes.					
4. Ingestion		Note for physician: Treat for active nitrogen on ingestion.					

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.	
WASTE DISPOSAL METHOD	
Large quantities to a sanitary landfill.	

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	Satisfactory
	MECHANICAL (General)	
PROTECTIVE GLOVES		EYE PROTECTION
Rubber if there are sores and cuts.		Goggles or face shield.
OTHER PROTECTIVE EQUIPMENT None required.		

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

Prepared by Clem L. Harris Title Technical Service Manager  
 Signature Clem L. Harris Date January 26, 1987



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