

MATERIAL SAFETY DATA SHEET		
MANUFACTURER: NA-CHURS/APLINE Solutions ADDRESS: 421 Leader Street Marion, Ohio 43302 PHONE: 1-740-382-5701 Ext. 221 EMERGENCY NO.: 1-800-424-9300 (Chemtrec)	NO.: 8-8-8 + micronutrients DATE: 5/7/2003 PREPARED BY: Greg Bame	

SECTION I. MATERIAL IDENTIFICATION	
CHEMICAL NAME AND SYNONYMS: Nitrogen, phosphorus, potassium, mixed fertilizer solution CHEMICAL FAMILY: Inorganic Complex	TRADE NAME AND SYNONYMS: N-P-K mixed liquid fertilizer

SECTION II. INGREDIENTS AND HAZARDS		
	%	HAZARD DATA
Total Nitrogen as N	8	N/A
Total Phosphorus as P ₂ O ₅	8	N/A
Total Potassium as KO	8	N/A
Boron as B	0.02	N/A
Copper as Cu	0.05	N/A
Iron as Fe	0.10	N/A
Manganese as Mn	0.05	N/A
Zinc as Zn	0.05	N/A

SECTION III. PHYSICAL DATA			
Boiling point at 1 atm, deg F	>200	Specific gravity (H ₂ O = 1)	1.22-1.24
Water solubility	Complete	Density, lbs/gal	10.16-10.33
pH	6.5-7.5		
Appearance and Odor:	Clear green liquid, no apparent odor and/or mild ammonia.		

SECTION IV. FIRE AND EXPLOSION DATA		
Flash Point and Method: N/A	Autoignition Temp: N/A	Flammability Limits in Air: N/A
Extinguishing media:	N-P-K solutions are non-flammable. If involved in a fire, use water or media suitable for surrounding materials.	
Special fire fighting procedures:	None	
Unusual fire and explosion hazards:	None	

SECTION V. HEALTH HAZARD INFORMATION		TLV: None
Effects of overexposure	N-P-K solutions are considered low health hazards.	
FIRST AID:		
Eye Contact:	Flush eye immediately and thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.	
Skin contact:	Flush skin immediately and thoroughly with water. If irritation persists, seek medical attention.	
Inhalation:	Generally not considered an inhalation hazard.	
Ingestion:	If conscious, immediately give large quantities of water and induce vomiting. Get medical attention immediately.	