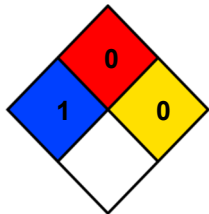




# SAFETY DATA SHEET

## X-Tend® B



HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	B

### SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>PRODUCT IDENTIFIER:</b>	X-Tend® B	<b>Product#</b> 014
<b>GENERAL USE:</b>	Used as a part of a plant nutrition program.	
<b>PRODUCT DESCRIPTION:</b>	A deep blue liquid having a slight characteristic odor.	
<b>SUPPLIER INFORMATION:</b>	Huma, Inc. 1331 W Houston Avenue Gilbert, AZ 85233	<b>EMERGENCY PHONE NUMBERS</b>
<b>For Additional SDS call:</b>	<b>PHONE:</b> (480) 961-1220	<b>CHEMTREC:</b> (In the USA) 800-424-9300 (International) 703-527-3887

### SECTION 2: HAZARDS IDENTIFICATION

#### HAZARDS OVERVIEW:

A deep blue, moderately alkaline liquid having a slight characteristic odor. The liquid and mists may be irritating to the eyes and the skin, with some blue tinting of the skin. Inhalation of mists may be irritating to the entire respiratory tract. Ingestion of this product can cause gastrointestinal irritation or pain, with possible cardiovascular and central nervous system effects.

**CLASSIFICATION:** MILD SKIN IRRITATION – HAZARD CATEGORY 3

**SIGNAL WORD:** WARNING

**HAZARD STATEMENT:** H316 - WARNING - causes mild skin irritation.

**PRECAUTIONARY STATEMENT:** P332+P317—If skin irritation occurs, get emergency medical help.

**CLASSIFICATION:** HAZARD CATEGORY 5 - MAY BE HARMFUL IF SWALLOWED

**SIGNAL WORD:** WARNING

**HAZARD STATEMENT:** H303 - WARNING – may be harmful if swallowed.

**PRECAUTIONARY STATEMENT:** P301+P317—If swallowed, get emergency medical help.

### SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA HAZARD	WT %	ACGIH		OSHA	
				TLV <sub>(TWA)</sub>	STEL	PEL <sub>(TWA)</sub>	STEL
Urea	57-13-6	Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly Toxic by Chronic Dermal Contact & Inhalation, with Cardiovascular & Central Nervous System effects.	6 ± 1	None	None	None	None
				AIHA WEEL: 10 mg/m <sup>3</sup>			
Diammonium Phosphate	7783-28-0	Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly Toxic by Ingestion; Central Nervous System toxin	3 ± 0.5	None	None	None	None
Phosphoric Acid	7664-38-2	Corrosive; Lung Toxin	3 ± 0.5	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	None

NDA = No Data Available

N/A = Not Applicable

## SECTION 4: FIRST AID MEASURES

<b>INHALATION:</b>	If inhaled, immediately move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
<b>EYE CONTACT:</b>	In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Get medical attention if irritation persists.
<b>SKIN CONTACT:</b>	In case of contact, flush skin with plenty of clean running water. Remove contaminated clothing and shoes and wash before reuse. If irritation occurs and persists, get medical attention.
<b>INGESTION:</b>	If large quantities of this product are swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>NOTE TO PHYSICIANS:</b>	Based on component information, this product may be slightly toxic by ingestion. If a large amount is ingested, consideration should be given to careful endoscopy as stomach or esophageal irritation may occur, with possible central nervous system effects following absorption into the blood stream. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

<b>Flashpoint and Method:</b>	This product does not flash.		
<b>Flammable Limits (in air, % by volume)</b>	<b>Lower:</b>	Not applicable	<b>Upper:</b> Not applicable
<b>Autoignition Temperature:</b>	Not applicable		
<b>GENERAL HAZARD:</b>	This product is an aqueous, moderately alkaline solution of organic and inorganic compounds. The Uniform Fire Code health hazard classification for this product is: <b>Irritant</b> . It may produce hazardous decomposition products.		
<b>FIRE FIGHTING INSTRUCTIONS:</b>	<b>EXTINGUISHING MEDIA:</b> Water, foam, CO <sub>2</sub> or dry chemicals. Use a water spray or fog to cool the containers exposed to the heat of a fire.		
<b>FIRE FIGHTING EQUIPMENT:</b>	Fire fighters should wear full protective equipment, including self-contained breathing apparatus.		
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic carbon monoxide, carbon dioxide, phosphorus oxides and nitrogen oxides with trace or ultra-trace toxic oxide amounts, of iron, manganese, magnesium, potassium, sulfur, calcium, zinc and sodium.		

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>RELEASE TO LAND:</b>	Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or a vacuum truck, or absorb the liquid in sand or a commercially absorbent material. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the alkalinity, of the remaining liquid, using a dilute acid solution appropriate for neutralizing alkaline liquids. Liberally cover the spill area with sodium bicarbonate. Flush the spill area with water; collect the rinsates for disposal or sewer, as appropriate.
<b>RELEASE TO WATER:</b>	Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.

## SECTION 7: HANDLING AND STORAGE

<b>STORAGE TEMPERATURE:</b>	Ambient	<b>STORAGE PRESSURE:</b>	Ambient
<b>GENERAL:</b>	Store in a cool, dry, well-ventilated area, away from incompatible materials and products. Protect eyes, skin and clothing from contact with product. Wear recommended personal protective equipment when handling this product. Avoid breathing vapors or mists. Use with adequate ventilation. Do not take internally. Keep the container tightly closed when not in use. Wash thoroughly after handling this product.		

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**CONTROL MEASURES:** Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area, above the AIHA WEEL or levels that may cause irritation.

### RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATOR:** Respiratory protection is not normally required. If use produces mists or aerosols that may cause irritation, a NIOSH approved half mask or full facepiece respirator equipped with a good mist / particulate cartridge or supplied air is recommended. **Note:** Always consult the respirator manufacturer's data when determining the suitability of respiratory protective devices prior to use.

**EYES:** Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full facepiece respirator is worn. **Note:** Always consult the protective eyewear manufacturer's data when determining the suitability of protective eyewear prior to use.

**GLOVES:** Wear Neoprene, Nitrile, Butyl Rubber or Natural Rubber gloves. **Note:** Always consult the glove manufacturer's permeation data when determining the suitability of gloves prior to use.

**CLOTHING & EQUIPMENT:** Wear a Neoprene, Nitrile, Butyl Rubber or Natural Rubber apron when handling this product. An eye wash station and safety shower should be available in the work area. **Note:** Always consult the clothing/equipment manufacturer's permeation data when determining the suitability of clothing/equipment prior to use.

**FOOTWEAR:** Wear Neoprene, Nitrile, Butyl Rubber or Natural Rubber boots. **Note:** Always consult the footwear manufacturer's permeation data when determining the suitability of footwear prior to use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Deep blue	<b>Bulk Density (pounds/ft<sup>3</sup>):</b>	Not applicable
<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Slight characteristic	<b>Vapor Density (air=1):</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate (n-Butyl Acetate=1):</b>	Less than 1
<b>Molecular Formula:</b>	Mixture	<b>VOC Content / Organic Matter:</b>	Nil / 9.0%
<b>Molecular Weight:</b>	Not applicable	<b>% Volatile:</b>	Approximately 76
<b>Boiling Point:</b>	Greater than 100° C. (212° F.)	<b>Solubility in H<sub>2</sub>O:</b>	Soluble
<b>Freezing/Melting Point:</b>	Less than 0° C. (32° F.)	<b>Octanol/Water Partition Coefficient:</b>	No data available
<b>Specific Gravity:</b>	1.10 @ 20° C.	<b>pH (as is):</b>	8.0 to 9.0
<b>Density (pounds/gallon):</b>	Approximately 9.18	<b>pH (1% solution):</b>	No data available

## SECTION 10: STABILITY AND REACTIVITY

**GENERAL:** This product is stable and hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Do not store this product below 50° F (10° C) or above 90° F (30° C)

**INCOMPATIBLE MATERIAL:** Oxidizers, caustics & strong alkali and all acids or acidic materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic oxides of carbon, phosphorus and nitrogen with trace or ultra-trace toxic oxide amounts, of sulfur, potassium, iron, manganese, magnesium, calcium, zinc and sodium.

**SENSITIVITY TO MECHANICAL IMPACT:** This product is not sensitive to mechanical impact.

**SENSITIVITY TO STATIC DISCHARGE:** This product is not sensitive to static discharge.

## SECTION 11: TOXICOLOGICAL INFORMATION

Components:	<u>Urea</u>	<u>Diammonium Phosphate</u>	<u>Phosphoric Acid</u>
<b>Eye Contact:</b>	No data available	No data available	Rabbit: 119 mg; Severe
<b>Skin Contact:</b>	No data available	No data available	Rabbit: 595 mg/24 hours; Severe
<b>Oral Rat LD<sub>50</sub>:</b>	8,471 mg/kg	≥1,000 mg/kg	1,530 mg/kg
<b>Dermal Rabbit LD<sub>50</sub>:</b>	No data available (Rabbit, Subcutaneous LD <sub>50</sub> : 3 gm/kg)	No data available	2,740 mg/kg
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available (Rat, Inhalation, Chronic – Multiple Dose, 288 mg/m <sup>3</sup> /17 weeks; Toxic effects: Kidney, Ureter & Bladder – Other changes in urine composition; Blood – Other changes; Nutritional and gross metabolic changes.)	No data available	Greater than 850 mg/m <sup>3</sup> /1 hour
<b>Human Data:</b>	Human: 22 mg/3 days; Mild	No data available	Unreported Route Man LD <sub>50</sub> : 220 mg/kg
<b>Other Toxicological Data:</b>	Rat, Dermal, Chronic – Multiple Dose, 3,024 mg/kg/4 weeks; Toxic effects: Liver – Changes in Liver weight; Endocrine – Changes in Thymus weight; Death.	No data available	Oral Man TD <sub>50</sub> : 1,286 uL/kg
<b>Carcinogenicity:</b>	Oral Rat TD <sub>50</sub> : 821 gm/kg/1 year; Tumorigenic – Neoplastic by RTECS criteria; Blood – Tumors; Blood – Lymphomax including Hodgkin's disease.	No data available	No data available
<b>Teratogenicity:</b>	Intraplacental Woman TD <sub>50</sub> : 1,400 mg/kg (female 16 Weeks pregnant); Effects on Fertility - Abortion	No data available	No data available
<b>Mutagenicity:</b>	Human DNA Inhibition; lymphocyte: 600 mmol/Liter	No data available	No data available
<b>Synergistic Products:</b>	None reported	None reported	None reported
<b>Target Organs:</b>	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Lungs & Central Nervous System	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract
<b>Medical Conditions Aggravated By Exposure:</b>	Skin, Respiratory or Cardiac disorders	Skin or Respiratory disorders	Skin, Respiratory or Gastrointestinal disorders

## SECTION 12: ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

This product is soluble in water and may slightly affect the pH of water. No specific environmental fate data is available.

### ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product has not been determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**RCRA 40 CFR 261 CLASSIFICATION:** Non-RCRA Hazardous Waste (United States)

**U.S. EPA WASTE NUMBER/DESCRIPTION:** Not Applicable

If this product is disposed of as shipped, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D due to toxicity. As a non-RCRA hazardous liquid waste, it should be disposed of in accordance with all local, state, and federal regulations. Consult state or local officials for proper disposal method.

## SECTION 14: TRANSPORTATION INFORMATION

<b>DOT PROPER SHIPPING NAME:</b>	<b>Not DOT Regulated (United States)</b>		
	<b>Hazard Class:</b> Not applicable	<b>UN Number:</b> N/A	<b>Packing Group:</b> N/A
	<b>Primary Label:</b> Not applicable	<b>Subsidiary Label(s):</b> None Required	
	<b>Primary/Subsidiary Placards:</b> None Required		
<b>DOT Reportable Quantity (RQ):</b>	Not Listed	<b>RQ for Product:</b> Not Applicable	
<b>Marine Pollutant:</b>	No		
<b>2012 North American Emergency Response Guidebook No.:</b>	<b>Not applicable</b>		
<b>TDG PROPER SHIPPING NAME:</b>	<b>NOT RESTRICTED</b>		
	<b>Hazard Class:</b> Not applicable	<b>UN Number:</b> N/A	<b>Packing Group:</b> N/A
	<b>Primary Label:</b> None Required	<b>Subsidiary Label(s):</b> None Required	
	<b>Primary/Subsidiary Placards:</b> None required		
<b>TDG Reportable Quantity (RQ): *</b>	Not applicable		
<b>TDG Schedule XII:</b>	Not applicable		
<b>Regulated Limit (RL): **</b>	Not Listed	<b>RL for Product:</b> Not Applicable	
<b>Other Shipping Information:</b>	None		

\* Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1). \*\* Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR.

## SECTION 15: REGULATORY INFORMATION

<b>COMPONENTS:</b>	<u><b>Urea</b></u>	<u><b>Diammonium Phosphate</b></u>	<u><b>Phosphoric Acid</b></u>
<b><u>OSHA Target Organs:</u></b>	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Lungs & Central Nervous System	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract
<b><u>Carcinogenic Potential:</u></b>			
<b>Regulated by OSHA:</b>	No	No	No
<b>Listed on NTP Report:</b>	No	No	No
<b>Listed by IARC:</b>	No	No	No
IARC Group:	Not applicable	Not applicable	Not applicable
<b>ACGIH Appendix A:</b>	Not listed	Not listed	Not listed
A1 Confirmed Human:	Not applicable	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable	Not applicable

### U.S. EPA Requirements

#### Release Reporting

##### **CERCLA (40 CFR 302)**

<b>Listed Substance:</b>	Not listed	Not listed	Yes
Reportable Quantity:	Not applicable	Not applicable	5,000 pounds
Category:	Not applicable	Not applicable	D
RCRA Waste No.:	Not applicable	Not applicable	Not listed
<b>Unlisted Substance:</b>	Not applicable	Not applicable	Not applicable
Reportable Quantity:	Not applicable	Not applicable	Not applicable
Characteristic:	Not applicable	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable	Not applicable

**SECTION 15: REGULATORY INFORMATION (Continued from page 5)**

**COMPONENTS:**                      Urea                                      Diammonium Phosphate      Phosphoric Acid

**SARA TITLE III**

**Section 302 & 303 (40 CFR 355):**

<b>Listed Substance:</b>	Not listed	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable	Not applicable
Planning Threshold:	Not applicable	Not applicable	Not applicable

**Section 311 & 312 (40 CFR 370):**

Hazard Categories (product):	<b>Fire: <u>N</u></b>	<b>Sudden Release of Pressure: <u>N</u></b>	<b>Reactive: <u>N</u></b>	<b>Acute Health: <u>Y</u></b>	<b>Chronic Health: <u>N</u></b>
Planning threshold:	10,000 pounds	10,000 pounds	10,000 pounds		

**Section 313 (40 CFR 372):**

<b>Listed Toxic Chemical:</b>	Yes (Aqua Ammonia)	Yes (Aqua Ammonia)	No (Delisted in June 2000)
Reporting Threshold:	10,000 pounds	10,000 pounds	Not applicable

**U.S. TSCA Status**

<b>Listed (40 CFR 710):</b>	Yes	Yes	Yes
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**State Regulations**

**State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):**

Carcinogen:	No	No	No
Reproductive Toxin:	No	No	No

**Other Regulations**

<b>State Right To Know Laws:</b>	MA, NJ, PA	None known	MA, NJ, PA
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**Canadian Regulations**

**Product Information:**

Controlled Product:	<b>Yes</b>
WHMIS Hazard Symbols:	<b>Material Causing Other Toxic Effects</b>
WHMIS Class & Division:	<b>D.2B</b>

**Ingredient Information:**

IDL Substance:	Yes	No	No
DSL or NDSL Lists:	DSL	DSL	DSL

**SECTION 16: OTHER INFORMATION**

**EPA Registration number:** Not applicable

**Approved Product Uses:** Used as part of a plant nutrition program.

**Special Notes:**

This product is not manufactured, or formulated to contain substances, which the State of California has found to cause cancer and/or birth defects or other reproductive harm. However, as it contains mined minerals, this product may contain trace (parts per million) or ultra-trace (parts per billion) of elements known to the State of California to cause cancer, birth defects or other reproductive harm.

**Special Instructions:** Store X-Tend® B in a cool, dry, well ventilated, area away from incompatible materials and products. Do not add this product to strong alkali or caustic materials, as this will liberate toxic, corrosive Ammonia gas.

**SDS Revision Information:** Revised Date: 6/21/2023

**SDS Distributed by:** Huma, Inc.

<b>Prepared By:</b> Anna Carpenter	<b>Date Prepared:</b> October 16, 2015
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