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MATERIAL SAFETY DATA SHEET

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Product Name: BLUE-X
Date Issued: 03/05/99
Supersedes: 08/28/97
Unisource Item #: U17956, U17957, U17958

SECTION 5. REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: OPEN FLAME, HEAT, SPARKS. AVOID CONTAMINATION WITH STRONG OXIDIZERS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

MATERIALS TO AVOID: OXIDIZING MATERIALS; STRONG ACIDS AND BASES.

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND UNIDENTIFIED ORGANICS MAY BE FORMED DURING COMBUSTION.

SECTION 6. SPILL, LEAK AND DISPOSAL PROCEDURES

SMALL SPILLS: DILUTE WITH WATER AND PICK UP WITH MOP AND PAIL OR WET PICK UP VACUUM.

LARGE SPILLS: DIKE AREA TO CONTAIN SPILL. CLEAN UP USING ABSORBENT MATERIAL. PLACE ALL CONTAMINATED MATERIAL IN A CLOSED CONTAINER FOR DISPOSAL.

DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL/STATE REGULATIONS AND LOCAL ORDINANCES.

CONTAIN. DISP.: EMPTY PRODUCT CONTAINERS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL/STATE REGULATIONS AND LOCAL ORDINANCES.

SECTION 7. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: EYES, SKIN

ACUTE EFFECTS: OVEREXPOSURE (INGESTION) MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, CARDIOPULMONARY EFFECTS (METABOLIC ACIDOSIS), AND KIDNEY FAILURE.

OVEREXPOSURE SYMPTOMS:

EYE CONTACT: MAY CAUSE EYE IRRITATION.

SKIN CONTACT: MAY CAUSE SKIN IRRITATION.

INHALATION: NO HEALTH EFFECTS ARE KNOWN TO OCCUR FROM INHALATION OF THIS PRODUCT UNDER NORMAL USE IN A WELL VENTILATED AREA. HIGH AIRBORNE CONCENTRATIONS OF MISTS OR SPRAYS OF THIS PRODUCT MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT.

INGESTION: MAY RESULT IN VOMITING. SMALL AMOUNTS SWALLOWED INCIDENTAL TO NORMAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY; HOWEVER, SWALLOWING AMOUNTS LARGER THAN THAT MAY CAUSE SERIOUS INJURY.

CHRONIC HEALTH HAZARDS: NONE KNOWN TO UNISOURCE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING IRRITATION OF SKIN OR MUCOUS MEMBRANES.

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BERYWN, PA 19312-0935
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EMERGENCY NO. 1-800-535-5053 (INFOTRAC)

SECTION 1. IDENTIFICATION OF PRODUCT

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SECTION 2. INGREDIENTS

INGREDIENTS	CAS NUMBER	PERCENT	EXPOSURE LIMITS IN AIR	
			OSHA PEL	ACGIH TLV
* 2-BUTOXYETHANOL	111-76-2	4-5	25 PPM	25 PPM
AMMONIUM HYDROXIDE	1336-21-6	1-2	35 PPM	25 PPM

* THIS (THESE) MATERIAL(S) ARE SUBJECT TO THE REPORTING REQUIREMENTS UNDER SARA TITLE III, SECTION 313 AND 40 CFR PART 372.
N/D = NOT DETERMINED N/E = NOT ESTABLISHED N/A = NOT APPLICABLE
PROP. = PROPRIETARY

SECTION 3. PHYSICAL DATA

BOILING POINT (F): LT 212 F
SPECIFIC GRAVITY (CONCENTRATE) (WATER=1): 0.99-1.00
VAPOR PRESSURE (PSIG): (#70F - AEROSOL): N/D
VAPOR PRESSURE (NON-AEROSOLS; MM HG): N/D
VAPOR DENSITY (AIR=1): GT 1
EVAPORATION RATE (WATER=1): GT 1
SOLUBILITY IN WATER: COMPLETE
PERCENT SOLIDS (2HR. @ 110C) (BY VOLUME): 0.3-0.4
PH RANGE: 10-10.5
VISCOSITY (BROOKFIELD SPIN. # @ RPM): LT 25 CPS
MELTING POINT: N/A
FREEZING POINT: N/D
GALLON WEIGHT: 8.283 LBS./GAL.
WATER REACTIVE: NEGLIGIBLE
APPEARANCE/ODOR: BLUE LIQUID/FLORAL FRAGRANCE.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY: NON-FLAMMABLE
FLASH POINT (NON-AEROSOLS): 127 F (TCC)
AUTO-IGNITION TEMP.: N/D FLAMMABLE LIMITS: LEL=N/D UEL=N/D
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM, WATER SPRAY/FOG. DO NOT USE DIRECT WATER STREAM.
SPECIAL FIRE FIGHTING PROCEDURES: DO NOT ENTER CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT INCLUDING NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS, SURROUNDING EQUIPMENT AND STRUCTURES WITH WATER.
UNUSUAL FIRE AND EXPLOSION HAZARD: NONE KNOWN.

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 SECTION 10. ADDITIONAL PRECAUTIONS

HANDLING AND STORAGE: PRACTICE REASONABLE CARE AND CLEANLINESS. AVOID BREATHING SPRAY MISTS. STORE IN ORIGINAL SHIPPING CONTAINERS AWAY FROM HEAT, OPEN FLAMES, STRONG ACIDS AND BASES AND OXIDIZING MATERIALS. DO NOT STORE NEAR FOOD, FOODSTUFFS, DRUGS OR POTABLE WATER SUPPLIES. KEEP CLOSED WHEN NOT IN USE. SHELF LIFE 1 YEAR.

OTHER SPECIAL HAZARDS: KEEP OUT OF REACH OF CHILDREN. READ AND FOLLOW LABEL DIRECTIONS.

TSCA INVENTORY STATUS: ALL COMPONENTS ARE INCLUDED IN TSCA INVENTORY.

SARA TITLE III RATINGS:

ACUTE: YES

CHRONIC: NO

FIRE: NO

PRESSURE RELEASE: NO

REACTIVITY: NO

HMIS RATINGS: HEALTH-1 FIRE-1 REACTIVITY-0 PROTECTION-A

NFPA RATINGS: HEALTH-1 FIRE-1 REACTIVITY-0 SPECIAL-

 SECTION 11. REGULATORY (OPTIONAL)

HM-181 PROPER SHIPPING NAME (DOT): NOT DOT HAZARDOUS

PROPER SHIPPING NAME CODE:

UN/NA NUMBER:

PG#:

CARCINOGEN LISTING: NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.

VOC CONTENT:

THEORETICAL = 2.75% () LB/GAL.

TYPICAL ANALYTICAL = % () LBS./GAL.

PHOSPHOROUS: % CONCENTRATE = NONE

DILUTION RANGE: N/A - N/A GMS./GAL.

 THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REPRESENTS THE LATEST DATA AND BEST OPINION AS TO PROPER USE/HANDLING OF THIS PRODUCT UNDER NORMAL CONDITIONS. ANY USE OF THIS PRODUCT OR METHOD OF APPLICATION WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET AND THE PRODUCT LABEL DIRECTIONS IS THE RESPONSIBILITY OF THE USER. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH OSHA HAZARD COMMUNICATION REGULATIONS.

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 SECTION 8. EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH THE EYE WITH LARGE QUANTITIES OF FRESH, RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYELIDS APART DURING THE IRRIGATION TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYELID WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WARM WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: MOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT GET MEDICAL ATTENTION.

INGESTION: REQUIRES IMMEDIATE MEDICAL MANAGEMENT. DO NOT INDUCE VOMITING. DRINK 3 TO 4 GLASSES OF WATER. VOMITING SHOULD BE INDUCED ONLY ON RECOMMENDATION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTES TO PHYSICIANS: NONE AVAILABLE OR KNOWN TO UNISOURCE.

 SECTION 9. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: CHEMICAL GOGGLES/EYE PROTECTION RECOMMENDED. AVOID CONTACT WITH EYES.

RESPIRATORY PROTECTION: NORMAL ROOM VENTILATION SHOULD BE ADEQUATE.

SKIN PROTECTION: AS REQUIRED TO MINIMIZE SKIN CONTACT. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL.

VENTILATION: IF NECESSARY, EXPLOSION PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

OTHER MEASURES: AVOID FOOD CONTAMINATION. EYEWASH ACCESSIBILITY RECOMMENDED.

HYGIENIC WORK PRACTICES: DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS AFTER HANDLING.

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