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Material Safety Data Sheet A-7200UV Part B

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: A-7200UV Part B

CHEMICAL NAME AND/OR FAMILY DESCRIPTION: MIXTURE

SYNONYMS: NONE

CHEMICAL FAMILY: CYCLOALIPHATIC AMINE

EMPIRICAL FORMULA: MIXTURE

INTENDED USE: EPOXY CURING AGENT

CHEM TREC # 800-424-930

EMERGENCY OVERVIEW:

HMS HEALTH RATING 3 FLAMMABILITY 1 REACTIVITY 0

Mobile liquid. Colorless. ODOR: Ammoniacal. Irritating. Severe eye irritant. Severe skin irritant. Severe respiratory tract irritant. Corrosive Liquid. May cause skin sensitization. In case of fire use: Carbon Dioxide (CO₂), Dry Chemical, Alcohol Foam.

SECTION 2 INGREDIENTS

COMPOSITION:

CHEMICAL NAME	CAS	%
Benzyl Alcohol	100-51-6	>40
Isophoronediamine	2855-13-2	<30

The remaining components are trade secret.

OSHA (ACGIH) EXPOSURE LIMITS

CAS #	TWA		STEL		CEILING	
	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm
100-51-6	N/E (N/E)	N/E (N/E)	N/E (N/E)	N/E (N/E)	N/E (N/E)	N/E
2855-13-2	N/E (N/E)	N/E (N/E)	N/E (N/E)	N/E (N/E)	N/E (N/E)	N/E

N/E = Not established. All values in () are U.S. ACGIH (American Conference of Government Industrial

Hygienists) – TLV; All others are OSHA – PEL.

SECTION 3 HAZARD IDENTIFICATION

ROUTES OF EXPOSURE:

Ingestion
Skin Absorption
Inhalation

EXPOSURE STANDARDS:

No standards established for the product.
Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS:

Severe eye irritant, Severe skin irritant, Severe respiratory tract irritant. Corrosive Liquid. May cause skin sensitization.

SIGNS AND SYMPTOMS OF EXPOSURE (Acute Effects)

Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury. Inhalation of vapors may severely damage contacted tissue and produce scarring.

Product vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere.

Corneal edema may give rise to a perception of “blue haze” or “fog” around lights. The effect is transient and has no known residual effect.

Ingestion may cause bleeding of the gastrointestinal tract and the vomiting of blood.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

Repeated and/or prolonged exposure may cause allergic reaction/sensitization.

Repeated and/or prolonged exposures may result in: adverse respiratory effects (such as cough, tightness of chest or shortness of breath); adverse skin effects (such as defatting, rash, or irritation); adverse eye effects (such as conjunctivitis or corneal damage).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Asthma; Chronic respiratory disease (e.g. Bronchitis, Emphysema); Eye disease; Skin Disorders and Allergies.

SECTION 4 FIRST AID MEASURES

EYES: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

SKIN: Remove product and immediately flush affected area with water for at least 15 minutes. Seek medical advice. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. **DO NOT APPLY GREASES OR OINTMENTS.** Control shock, if present. Launder contaminated clothing prior to reuse. Contaminated leather wear should be discarded. Victims of a major skin area contact should remain under medical observation for at least 24 hours due to possible delayed effects.

INGESTION: In the event of ingestion, administer 3-4 glasses of milk or water. **DO NOT INDUCE VOMITING.** Seek medical advice. Note to physicians: This product is highly injurious to all tissues, similar to that of ammonia or ammonia gas. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed

scarring of the airway or other affected tissues may occur following exposure. There is no specific treatment.

Clinical management is based on supportive treatment, which is similar to that for thermal burns.

INHALATION: Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Prevent aspiration of vomit. Turn victim's head to the side. Assure mucus does not obstruct airway. Seek medical advice.

SECTION 5 FIRE – FIGHTING MEASURES

CHARACTERISTICS:

FLASH POINT	96C (205F)
FLASH POINT METHOD(S)	Pensky-Martin Closed Cup
UPPER EXPLOSION LIMIT (UEL)	No Data
LOWER EXPLOSION LIMIT (LEL)	No Data
AUTOIGNITION TEMPERATURE	No Data
FIRE HAZARD CLASSIFICATION (OSHA/NFPA)	Class IIIB

Recommended Fire Extinguishing Agents and Special Procedures: Ignition will give rise to a Class B fire. In case of fire use: Water spray, Carbon Dioxide (CO₂), Dry Chemical, alcohol foam.

Unusual or Explosive Hazards: May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

Special Protective Equipment for firefighters: Retain expended liquids from fire fighting for later disposal. Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus. Water spray is also useful in cooling fire-exposed tanks and in dispersing vapors.

SECTION 6 ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking, etc.): Stop the leak, if possible. Ventilate the space involved. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

CLEAN-UP PROCEDURES: Cover minor spills with sodium bisulfate to neutralize and reduce vapors. Spray with water. Place in metal containers for recovery or disposal. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.

SECTION 7 HANDLING AND STORAGE

Precautions to be Taken In

Handling: Handle in well ventilated work space. Avoid breathing of vapors.

Storage: Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Keep away from oxidizers, heat or flames. Keep in cool, dry, ventilated storage and in closed containers.

Other: Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA).

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Protection Equipment (Type)

Eye/Face Protection: Chemical safety glasses, Splash-proof eye goggles. In emergency situations, use eye goggles with a full face shield.

Hand Protection: Nitrile rubber gloves.

Respiratory Protection: An organic vapor respirator National Institute for Occupational Safety and health (NIOSH) approved for organic vapors is recommended under emergency conditions. Emergency situations: when product concentration exceeds the limits listed in Section 2; during repair and cleaning of equipment; during transfer or discharge of the product.

Protective Clothing: Slicker Suit, Rubber boots

Engineering Controls: Adequate general and local exhaust.

Work and Hygienic Practices: Wash at the end of each work shift and before eating, smoking or using the toilet. Launder or discard contaminated clothing. Discard contaminated leather articles. Examine protective gloves before using. Discard if find evidence of holes or cracks.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Mobile Liquid

Appearance: Colorless

Odor: Ammoniacal. Irritating.

Boiling Point (degrees C): 200C (392F)

Melting/Freezing Point (degrees C): <-18C (OF)

Specific Gravity (water=1): 1.03 @ 25C (77F)

pH: Alkaline

Vapor Pressure: No data

Viscosity (CPS): 400 @ 25C (77F)

Vapor Density (Air = 1): No data

Solubility in Water (%): Slight; <1% @ 20C (68F)

Molecular Weight: Mixture

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions To Avoid (if unstable): Not applicable

Incompatibility (Materials to Avoid): Oxidizing Agents (i.e. perchlorates, nitrates, etc.). Cleaning solutions, such as chromerge (sulfuric acid/dichromate) and aqua regia. A reaction accompanied by large heat release occurs when the product is mixed with acids.

Hazardous Decomposition Products (from burning, heating, or reaction with other materials): Carbon Monoxide in a fire; Carbon Dioxide in a fire; Ammonia when heated; Nitrogen Oxides in a fire. Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm). Combustion of product under oxygen-starved conditions can be expected to produce numerous toxic products including: nitriles, amides.

Hazardous Polymerization: Will not occur.

Conditions To Avoid (if polymerization may occur): Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY EFFECTS DATA: Oral LD50 (rat): >2000 mg/kg

IRRITATION EFFECTS DATA: Severe irritant to the eyes of a rabbit. Corrosive liquid.

OTHER ACUTE EFFECTS: No Data

CHRONIC/SUBCHRONIC DATA: No delayed, subchronic or chronic test data are known.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: No Data

Environmental Fate: 2855-13-2 ISOPHORONEDIAMINE; Biodegradable

Additional Information: No Data

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Comply with all Federal, State and Local Regulations. Incineration is acceptable and the preferred method of disposal. However, nitrogen oxide emission controls may be required to meet specifications. Chemical and/or biological degradation is feasible. A suitable industrial or municipal waste treatment system can be used depending on the quality and quantity of waste to be treated, the treatment plant capability, and discharge water quality standards. Dispose of in an approved landfill if allowed locally.

SECTION 14 TRANSPORTATION INFORMATION

DOT/IMDG INFORMATION

DOT NON-BULK SHIPPING NAME:	Isophoronediamine solution; 8; UN2289; PGIII
IMO SHIPPING NAME:	Isophoronediamine solution; 8; UN2289; III; IMDG Page 8188; F. P. 93.3 C; Placarded Corrosive; HazMat STCC=4935624; EmS No: 8-05; MFAG No: 320
ICAO/IATA SHIPPING DATA:	Isophoronediamine solution; 8; UN2289; III F. P. 93.3 C; Shipment per 49 CFR 171.11

SECTION 15 REGULATORY INFORMATION

US FEDERAL REGULATIONS:

Toxic Substances control Act (TSCA): All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance inventory.

OSHA Hazard Communication Standard (29CFR1910.1200 Hazard Class(es): Corrosive

EPA SARA Title III Section 312 (40CFR370) Hazard Class: Immediate Health Hazard

EPA SARA Title III Section 313 (40CFR370) Toxic Chemicals Above "de minimis" level are: NONE

State Regulations:

PROPOSITION 65 SUBSTANCES component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986": None

NEW JERSEY TRADE SECRET REGISTRY NUMBER(S): 05995500-5360P

SECTION 16 INTERNATIONAL REGULATIONS

CANADA

DSL: Included on Inventory
WHMIS Hazard Classification: Class E Corrosive
WHMIS Trade Secret Registry Number(s): None
WHMIS Hazardous Ingredients: Included in Section 2
WHMIS Symbols: Test tube/hand

EUROPEAN ECONOMIC COMMUNITY (EEC):

EINECS MASTER INVENTORY: Polymeric substance; monomers included on Inventory

EEC Primary Risk Symbol: HARMFUL (XN)

EEC Risk and Safety Phrases:

Harmful by inhalation and in contact with skin (R20/21).
Risk of serious damage to eyes (R41). May cause sensitization by skin Contact (R43).
In case of contact with eyes, rinse immediately with plenty of water and seek Medical advice (S26). Wear suitable protective clothing, gloves and eye/ Face protection (S36/37/39).

SECTION 17 OTHER INFORMATION 1/13/99

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