MATERIAL SAFETY DATA SHEET
U.S. Department of Labor
Occupational Safety & Health Administration

POLARPRIME 7

SECTION 1 - IDENTIFIERS

MANUFACTURER: Andek Corporation
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In an emergency, contact CHEMTREC 1-800-424-9300;
Outside the United States call +1-703-527-3887
TRADE NAME: Polaprime 7
CHEMICAL FAMILY: Aluminum Extended Urethane Prepolymer

SECTION 2 – HAZARD IDENTIFICATION & EMERGENCY OVERVIEW

Emergency Overview: Toxic gases may be given off during burning or thermal decomposition. Closed container may forcibly rupture under extreme heat or when contents have been contaminated with water.

Effects of Overexposure:
SKIN: Liquid may irritate skin.
EYES: Contact may cause severe damage; vapor may irritate.
BREATHING: Inhalation may cause headache, dizziness, nausea, and irritation of respiratory tract.
SWALLOWING: May be harmful or fatal if swallowed.

SECTION 3 - COMPOSITION

COMPONENT	CAS #	APPROX %	TLV
Aluminum Polished Flake	7429-90-5	9.5	
Barium Sulfate	7727-43-7	11.5	
Naphtha, Light Aromatic Solvent	64742-95-6	17.0	
High Flash Mineral Spirit	8052-41-3	4.0	
Chlorinated Paraffin	8002-74-2	13.5	
Methylene Bisphenyl Isocyanate	101-68-8	2.3	
Polyether Prepolymer(Isocyanate solution N.O.S.,boiling point <300°C, flash point >23°C)	41.0	0.02ppm	

KNOWN CARCINOGENS OR MUTAGENS - TYPE & DEFINITION - None known

SECTION 4 – FIRST AID MEASURES

SKIN: Clean thoroughly with waterless hand cleaner, then follow with soap and water.
EYES: Flush with water for 15 minutes and seek immediate medical attention.
BREATHING: Move victim to fresh air. If asthmatic conditions occur, call a physician.
SWALLOWING: DO NOT induce vomiting. Seek medical attention immediately.

SECTION 5 – FIRE & EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 108°F. Closed Cup (ASTM D50)
FLAMMABLE LIMITS: Lel 0.9; Uel 6.0
EXTINGUISHING MEDIA: Carbon dioxide; dry chemical; foam
SPECIAL FIRE FIGHTING PROCEDURES: If excessive fumes or smoke is encountered, wear self-contained respiratory equipment and full protective clothing.
UNUSUAL FIRE & EXPLOSION HAZARDS: Sealed containers may build up pressure if exposed to heat (fire). Water can be used to cool the exterior of the containers.
DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen, aluminum, possible HCN, polyurethane combustion compounds and halogens.

SECTION 6 – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Cover with a layer of sand or other suitable absorbent. Use protective measures as outlined in Section VIII below. Avoid contact with eyes, skin or clothing.

SECTION 7 – HANDLING & STORAGE

Avoid contact with moisture. Isocyanates react with water and generate CO^2 which may rupture sealed containers. Store between 40 and 80°F.

SECTION 8 – PERSONAL PROTECTION/EXPOSURE CONTROLS

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined spaces use fresh air hood or NIOSH certified organic vapor canister unit. If used outdoors, ventilate well using a general or local exhaust ventilation.

EYE PROTECTION: Wear chemical splash goggles or face shield. Do not wear contact lenses while working with this material.
SKIN PROTECTION: Nitrile rubber gloves and apply a solvent-resistant barrier cream to areas of skin that may come in contact with this material.
OTHER PROTECTIVE EQUIPMENT: Eye wash station or fresh running water should be readily available. Wear coveralls and/or rubber apron and rubber shoes or boots.
PERSONAL HYGIENE: Wash hands thoroughly after handling and especially before eating or smoking. Shower at the end of the work shift. Wash contaminated clothing before reuse.

SECTION 9 – PHYSICAL DATA

BOILING POINT (F)	312°	SPECIFIC GRAVITY (H^20=1)	1.11
VAPOR PRESSURE	10	PERCENT, VOLATILE BY VOLUME	20%
VAPOR DENSITY (AIR=1)	<4.8	EVAPORATION RATE (N.B.A.=1)	0.2
SOLUBILITY IN WATER	Insoluble	pH (5% SLURRY)	Neutral

APPEARANCE & ODOR - Silver liquid with aromatic solvent odor

SECTION 10 – REACTIVITY DATA
STABILITY: Stable
INCOMPATABILITY (MATERIALS TO AVOID): Water (moisture); alcohols; amines; strong acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Possible HCN.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Contamination with water will evolve CO^2.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY	Moderate
ACUTE INHALATION TOXICITY	Moderate
ACUTE DERMAL TOXICITY	Slight
SENSITIZATION	Possible
MUTAGENICTIY	Negative
CARCINOGENICITY	Not Classifiable

SECTION 12 ECOLOGICAL INFORMATION

BIODEGRADATION	Slow to Moderate
TOXICITY TO FISH	Minimal
TOXICITY TO AQUATIC INVERTEBRATES	Minimal
TOXICITY TO MICRO ORGANISMS	Minimal
ATMOSPHERIC OXIDATION OF VOLATILES	Degrade Rapidly
BIOACCUMULATION	Negative
TOXICITY TO PLANTS	Minimal

SECTION 13 – DISPOSAL CONSIDERATIONS
Dispose of in accordance with local, state and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	3
PACKING GROUP:	III
ID #:	UN 1263
RQ:	None

TRANSPORT LABELS REQUIRED: Flammable liquid. (In the U.S., this material may be re-classified as a combustible liquid and is not regulated in containers less than 119 gallons via surface transportation.)

SECTION 15 – REGULATORY INFORMATION
See reference data for individual components.

SECTION 16 – OTHER INFORMATION (HMIS RATING)

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HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	1
PERSONAL PROTECTION	H

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