



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

POLAPRIME 21

SECTION 1 - IDENTIFIERS

MANUFACTURER: Andek Corporation
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 TRADE NAME: Polaprime 21
 CHEMICAL FAMILY: Metal Oxide 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: May irritate skin.
 EYES: Contact may cause severe damage. Vapor may irritate.
 BREATHING: Inhalation may cause headache, dizziness, nausea and irritation.
 SWALLOWING: Harmful or fatal if swallowed.

SECTION 3 - COMPOSITION

<u>COMPONENT</u>	<u>CAS #</u>	<u>APPROX %</u>	<u>TLV</u>
Lampblack/Titanium Dioxide or Iron Oxide	13463-67-7	11.2	
Naphtha Light Aromatic Solvent	64742-95-6	42.3	
Polyester Prepolymer Resin Solution N.O.S.	(ITASCA File)	39.9	
Acrylic Resin	(ITASCA File)	6.6	

KNOWN CARCINOGENS OR MUTAGENS - TYPE & DEFINITION – None known

SECTION 4 – FIRST AID MEASURES

SKIN: Clean thoroughly with pumice-based hand cleaner, followed by soap and water.
 EYES: Flush with clear water for 15 minutes and seek medical attention immediately.
 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): 105°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 may be used to cool the exterior of the containers.

DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen and iron, possible HCN and polyurethane combustion compounds.

SECTION 6 – SPILL OR LEAK PROCEDURES

Cover with a layer of sand or other suitable absorbent. Use protective measures as outlined under Section 8 below. Avoid contact with eyes, skin or clothing.

SECTION 7 – HANDLING & STORAGE

Avoid prolonged or repeated contact with skin. Avoid contact with moisture. Do not use in confined areas without adequate ventilation.

SECTION 8 – PERSONAL PROTECTION/EXPOSURE CONTROLS

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined spaces, use fresh air hood or NIOSH certified organic vapor canister unit.

EYE PROTECTION: Safety goggles or face shield.

SKIN PROTECTION: Nitrile rubber gloves.

OTHER PROTECTIVE EQUIPMENT: Coveralls and/or rubber apron, rubber shoes or boots.

PERSONAL HYGIENE: Wash thoroughly after applying this material.

SECTION 9 - PHYSICAL DATA

BOILING POINT (F)	312°	SPECIFIC GRAVITY (H ₂ O=1)	0.98
VAPOR PRESSURE	10	PERCENT, VOLATILE BY VOLUME	42.3
VAPOR DENSITY (AIR=1)	4.8	EVAPORATION RATE (N.B.A.=1)	0.25
SOLUBILITY IN WATER	Insoluble	pH (5% SLURRY)	7

APPEARANCE & ODOR - Gray or red liquid with perfume-like odor.

SECTION 10 – REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Water (moisture); alcohols; amines; strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides or carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Excessive heat and/or wet conditions. Will react with water to produce CO₂ and exotherm.

SECTION 11 – TOXICOLOGICAL INFORMATION

See reference data for individual components.

SECTION 12 – ECOLOGICAL INFORMATION

See reference data for individual components.

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:	3
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)

Health	2
Flammability	2
Physical Hazard	1
Personal Protection	H

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