



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

POLAROOF RAC

SECTION 1- IDENTIFIER

MANUFACTURER: Andek Corporation
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In an emergency, contact CHEMTREC toll-free at 1-800-424-9300
Outside the United States call 1-703-527-3887
TRADE NAME: Polarooft RAC
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	
Naptha, 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 boiling point <300°C, flash point >23°C)	N.O.S 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 CO² 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 (H2O=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

INCOMPATIBILITY (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 CO².

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: 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

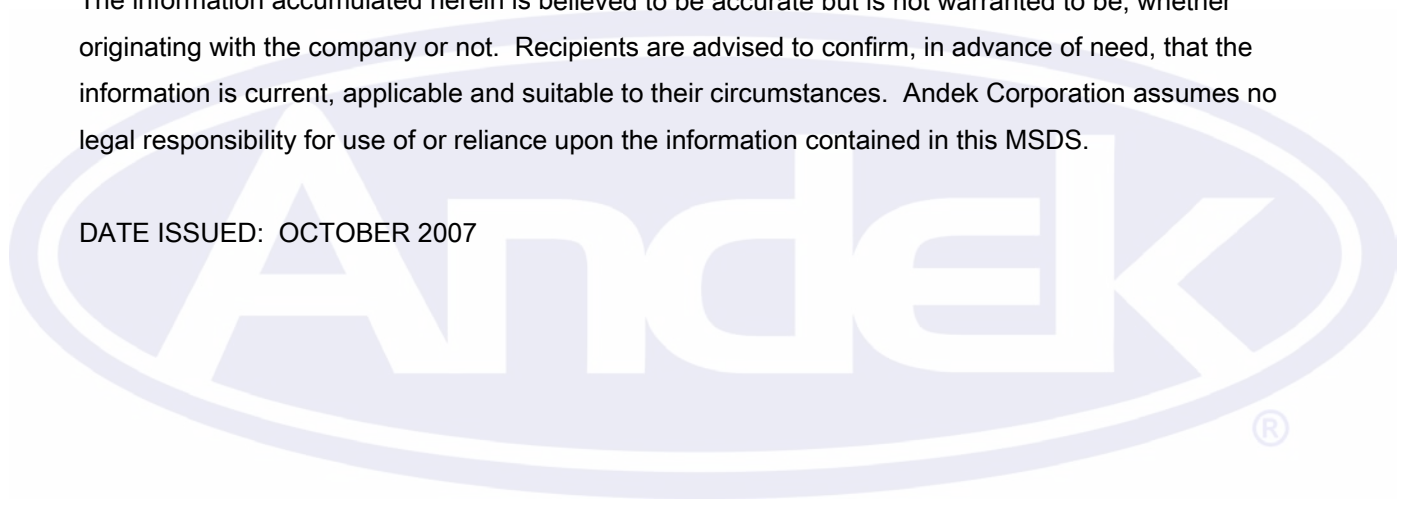
See reference data for individual components.

SECTION 16 - OTHER INFORMATION (HMIS RATING)

Health	2
Flammability	2
Physical Hazard	1
Personal Protection	H

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DATE ISSUED: OCTOBER 2007



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