



## SAFETY DATA SHEET

U.S. Department of Labor  
Occupational Safety & Health Administration

# Clearcoat FP Resin

## SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation  
ADDRESS: 850 Glen Avenue, Moorestown, NJ 08057  
TELEPHONE: 1-856-786-6900  
In an emergency, contact CHEMTREC 1-800- 424-9300;  
Outside the United States call +1-703-527-3887  
PRODUCT IDENTIFIER: Clearcoat FP Resin  
RECOMMENDED USE: Protective Coating

## SECTION 2 – HAZARD IDENTIFICATION

### HAZARD CLASSIFICATION (EFFECTS OF EXPOSURE):

**Skin:** No irritation hazard in normal industrial use.

**Eyes:** No irritation hazard in normal industrial use.

**Inhalation:** No irritation hazard in normal industrial use.

**Ingestion:** Ingestion of large amounts may cause nausea and/or constipation

**Sensitization:** Does not cause sensitization.

**SIGNAL WORD:** Warning - No hazard in normal industrial use.

### HAZARD STATEMENTS:

- Epidemiology studies do not suggest an increased risk of cancer in humans from occupational exposure to this product.
- Not considered to be harmful to aquatic life.

**PICTOGRAMS:** None Necessary.

### PRECAUTIONARY STATEMENTS:

#### **Prevention:**

- **Do Not** handle until all safety precautions have been read and understood.
- **Do Not** breathe dust or spray.
- **Do Not** get in eyes, on skin, or on clothing.
- Wash thoroughly after handling.
- **Do Not** eat, drink or smoke when using this product.

#### **Response:**

##### **Skin:**

- Wash affected areas thoroughly with soap and water.
- Wash contaminated clothing before reuse.

##### **Eyes:**

- Use eyewash to remove substance from eyes.
- Get medical advice if irritation develops.

##### **Inhalation:**

- Call a doctor if spray is inhaled
- No toxic effect is known to be associated with inhalation of vapors from this material

##### **Ingestion:**

- **Do Not** induce vomiting.
- Get Medical advice/attention if you feel unwell.
- Rinse mouth.

**Storage:**

- Store in a cool dry place
- **Do Not** allow this material to freeze.

**Disposal:**

- Water disposal should be in accordance with existing federal, state and local environmental control laws.

## **SECTION 3 – COMPOSITION**

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>APPROX %</u>
1,2 Propanediol (Propylene Glycol)	57-55-6	1.0
Ethylene Glycol Monobutyl Ether	111-76-2	0.4
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	25265-77-4	3.0
Fluoropolymer	Trade secret	41.0
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	41556-26-7	0.7
Acrylic Copolymer	25085-46-5	27.0
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2 H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1- oxopropoxy]-	104810-47-1	0.7
Water	7732-18-5	Balance

## **SECTION 4 – FIRST AID MEASURES**

**Skin:** Wash with soap and water

**Eyes:**

- Flush with plenty of water to remove any substance in the eyes.
- Remove contact lenses if present.
- Seek medical advice if irritation develops.

**Inhalation:**

- If mist (over spray) or dust (from sanding) is inhaled, move person to fresh air.
- If person is not breathing, call 911 or an ambulance and then give artificial respiration.
- Call for medical attention.

**Ingestion:**

- **Do Not** induce vomiting.
- Seek medical attention if symptoms develop.

## **SECTION 5 – FIRE-FIGHTING MEASURES**

**Flash point:** Non Flammable

**Flammable limits:** None Established.

**Extinguishing media:**

- Water spray, foam dry chemical or carbon dioxide.
- Use whatever media deemed appropriate for surrounding fire.

**Special fire fighting procedures:** Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

**Unusual fire & explosion hazards:**

- There may be a possibility of pressure buildup in closed containers when heated.
- Water spray may be used to cool the containers.

**Decomposition products:** Carbon dioxide, carbon monoxide, phosphorous compounds.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### **Personal precautions:**

- Wear safety glasses when handling this product.
- No adverse health effects expected from the clean-up of spilled material.

### **Cleanup procedures:**

- Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal.
- Keep spilled product out of sewers, watersheds, or water systems.

## SECTION 7 – HANDLING & STORAGE

### **Precautions for safe handling:**

- No special handling instructions due to toxicity.
- This product contains limited amounts of residual monomer. Under normal handling and use conditions the residual monomer should not present a hazard.
- In storage the monomer will migrate from the emulsion and establish equilibrium between the headspace in the storage container and the liquid emulsion.
- Levels in excess of acceptable exposures can accumulate in non-vented headspaces above the emulsion.

**Recommendations on the conditions for safe storage:** Store in a cool, dry place.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure limits:**

CHEMICAL NAME	PEL	TWA
1,2 Propanediol (Propylene Glycol)	N/A	WEEL 10 mg/m <sup>3</sup> (aerosol)
Ethylene Glycol Monobutyl Ether	240 mg/m <sup>3</sup> 50 ppm Skin	ACGIH 20 ppm

### **Engineering controls:**

- No exposure limits exist for the constituents of this product.
- No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

### **Inhalation protection:**

- No respiratory protection required under normal conditions of use.
- Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

**Eye protection:** Wear safety glasses when handling this product.

### **Skin and body protections:**

- Not normally considered a skin hazard.
- Where use can result in skin contact, practice good personal hygiene.
- Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Other hygienic practices and protective equipment:** Use nitrile gloves if conditions warrant.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Partially Non-Newtonian liquid

**Physical state:** Liquid

**Color:** White liquid - dries clear

**Odor:** Slight ammonia odor

**Odor threshold:** None established

**pH:** 9.5

**Melting point/freezing point:** 32°F Freezing point

**Initial boiling point and boiling range:** 212°F Boiling point

**Flash point:** Non flammable

**Evaporation rate:** 1.0 (water =1)

**Flammability:** Non flammable

**Upper/lower flammability or explosive limits:** None established

**Vapor pressure:** 23 hPa (17 mmHg) @ 20°C (68°F)

**Vapor density:** 1.24 g/cm<sup>3</sup> @ 20°C (68°F)

**Relative density:** 1.09 kg/l  
**Solubility:** Soluble with water  
**Partition coefficient: n-octanol/water:** None established  
**Auto-ignition temperature:** None established  
**Decomposition temperature:** 200°C (392°F)  
**Viscosity:** 50 Krebs units @ 20°C (68°F)

## SECTION 10 – STABILITY AND REACTIVITY

**Reactivity:** Will not occur.

**Chemical stability:** Stable under normal conditions.

**Incompatibility:** Not established.

**Hazardous decomposition products:** Phosphorus compounds, carbon monoxide, carbon dioxide, hydrogen fluoride

## SECTION 11 – TOXICOLOGICAL INFORMATION

The following information regarding health hazards is based upon third-party research studies.

**Effects of Acute Exposure:**

**Inhalation:** Inhalation of dust or mist can cause irritation of the eyes, nose, throat, and lungs.

**Eye Contact:** Like any foreign body, particles can cause mechanical irritation.

**Skin Contact:**

- This material can cause irritation if not promptly washed from the skin.
- This product is not expected to be absorbed through intact skin.

**Ingestion:** This material is not expected to produce adverse effects.

**Numerical measures of toxicity:**

CHEMICAL NAME	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Fluoropolymer	>2,500 mg/kg	N/A	N/A
1,2 Propanediol (Propylene Glycol)	>20,000 mg/kg	>2,000 mg/kg	317.042 mg/l (2 hr., aerosol)(rabbit)
Ethylene Glycol Monobutyl Ether	1,746 mg/kg	2,270 mg/kg (rat)	700 ppm (7 hr. vapor)
2,2,4-Trimethyl-1,3-Pentenediol Monoisobutyrate	>3,200 mg/kg	>15,200 mg/kg	>2.73 mg/l (6 hr)

## SECTION 12 – ECOLOGICAL INFORMATION

**Data from toxicity test:**

CHEMICAL NAME	Algae/Aquatic Plants (EC50)	Fish (LC50)	Toxicity to Microorganism	Crustacea (LC50) (Aquatic Invertebrates)
2,2,4-Trimethyl-1,3-Pentenediol Monoisobutyrate	72 h: > 57 mg/l (Pseudokirchneriella subcapitata (algae))	96 h: 33 mg/l (Fathead Minnow)	N/A	EC50 - 48 h: 147.8 mg/l (Water Flea)
Ethylene Glycol Monobutyl Ether	72 h: 911 mg/l (Selenastrum capricornutum), biomass growth inhibition	96 h: 820 - 1,490 mg/l (bluegill - Lepomis macrochirus)	IC50; bacteria: > 1,000 mg/l	835 mg/l (water flea Daphnia magna)
1,2 Propanediol (Propylene Glycol)	96 h: 19,000 mg/l (Pseudokirchneriella subcapitata (green algae), Growth rate inhibition)	96 h: 40,613 mg/l (Oncorhynchus mykiss (rainbow trout), static test)	18 h: > 20,000 mg/l (Pseudomonas putida); NOEC, no data available	48 h: 18,340 mg/l (Ceriodaphnia Dubia (water flea), static test)

**Biodegradation:**

CHEMICAL NAME	
2,2,4-Trimethyl-1,3-Pentenediol Monoisobutyrate	> 77 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable
Ethylene Glycol Monobutyl Ether	Material is readily biodegradable. Passes OECD test(s) for ready biodegradability <b>Chemical Oxygen Demand:</b> 2.21 mg/g; <b>Theoretical Oxygen Demand:</b> 2.30 mg/mg
1,2 Propanediol (Propylene Glycol)	Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen) <b>Chemical Oxygen Demand:</b> 1.53 mg/mg; <b>Theoretical Oxygen Demand:</b> 1.68 mg/mg

**Bioaccumulation potential:**

CHEMICAL NAME	
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	N/A
Ethylene Glycol Monobutyl Ether	potential is low (BCF less than 100 or log Pow less than 3)
1,2 Propanediol (Propylene Glycol)	potential is low (BCF < 100 or Log Pow < 3)

**Mobility in soil:**

CHEMICAL NAME	
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	Log K <sub>oc</sub> - log K <sub>oc</sub> : 1.5 - 2.8
Ethylene Glycol Monobutyl Ether	Potential for mobility in soil is high (K <sub>oc</sub> between 50 and 150)
1,2 Propanediol (Propylene Glycol)	Potential for mobility in soil is very high (K <sub>oc</sub> between 0 and 50)

**SECTION 13 – DISPOSAL CONSIDERATIONS**

- To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261.
- Solidify and dispose of in an approved landfill.
- Consult state, local or provincial authorities for more restrictive requirements.

**SECTION 14 – TRANSPORT INFORMATION**

UN #	N/A
UN PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	N/A
PACKING GROUP:	N/A
ENVIRONMENTAL HAZARDS:	N/A
GUIDANCE ON TRANSPORT IN BULK:	N/A

Transport labels required: This product is not regulated by the D.O.T.

**SECTION 15 – REGULATORY INFORMATION****US Federal Regulation:**

**SARA 311/312 Hazard Categories:** None of the ingredients of this product are subject to SARA 311-312

**SARA 313:**

CHEMICAL NAME	CAS #
Ethylene Glycol Monobutyl Ether	111-76-2

**US State Right to Know Regulations:** New Jersey, Massachusetts, Pennsylvania, Rhode Island

CHEMICAL NAME	CAS #
Ethylene Glycol Monobutyl Ether	111-76-2
1,2 Propanediol (Propylene Glycol)	57-55-6

**CA Prop 65:** None Listed

**Canada:** None listed

**SECTION 16 – OTHER INFORMATION (HMIS RATING)**

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

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