



SAFETY DATA SHEET

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

Clearcoat FP Resin

SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation
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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 ³ (aerosol)
Ethylene Glycol Monobutyl Ether	240 mg/m ³ 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/cm³ @ 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 Chemical Oxygen Demand: 2.21 mg/g; Theoretical Oxygen Demand: 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) Chemical Oxygen Demand: 1.53 mg/mg; Theoretical Oxygen Demand: 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 _{oc} - log K _{oc} : 1.5 - 2.8
Ethylene Glycol Monobutyl Ether	Potential for mobility in soil is high (K _{oc} between 50 and 150)
1,2 Propanediol (Propylene Glycol)	Potential for mobility in soil is very high (K _{oc} 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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