



## SAFETY DATA SHEET

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

# Clearcoat 66

## 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 66  
RECOMMENDED USE: Industrial Protective and Maintenance Coating

## SECTION 2 – HAZARD IDENTIFICATION

### HAZARD CLASSIFICATION:

**Skin:** Irritant

**Eyes:** Reversible

**Inhalation:** Low to moderate sensitivity; may cause sensitization.

**Ingestion:** **Do Not** ingest.

**SIGNAL WORD:** Danger

### HAZARD STATEMENTS:

- Contains monomeric isophorone diisocyanate.
- Causes skin irritation.
- May cause allergic skin reaction
- May cause allergic respiratory reaction.
- May cause eye irritation.
- May be harmful if aerosol or mist is inhaled.
- Closed containers may explode under extreme heat or when contaminated with water.
- Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases / fumes are given off during burning or thermal decomposition.
- **Do Not** seal containers that have been contaminated with water.
- Flammable liquid and vapor.

### PICTOGRAMS:



### PRECAUTIONARY STATEMENTS:

#### **Prevention:**

- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Protect from moisture.
- **Do Not** spray on an open flame or other ignition source.
- Use explosion-proof electrical/ventilating/light/equipment.
- Take precautionary measures against static discharge.
- Avoid breathing spray.
- **Do Not** get in eyes, on skin, or on clothing.
- Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

- Wash contaminated clothing before reuse.
- Rinse skin with water/shower.
- In case of fire use water fog, carbon dioxide, foam or dry chemical to extinguish.
- Rinse mouth. **Do Not** induce vomiting.
- If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.

**Storage:**

- Store in a well ventilated place.
- Keep container tightly closed.

**Disposal:**

- Waste disposal should be in accordance with existing federal, state and local environmental control laws.
- Incineration is the preferred method.

## SECTION 3 – COMPOSITION

| <u>CHEMICAL NAME</u>                | <u>CAS #</u> | <u>APPROX %</u> |
|-------------------------------------|--------------|-----------------|
| Isophorone Diisocyanate Homopolymer | 53880-05-0   | 65.0            |
| Naphtha Light Aromatic Solvent      | 64742-95-6   | 20.0            |
| Methyl Amyl Ketone                  | 110-43-0     | 14.0            |
| Isophorone Diisocyanate             | 4098-71-9    | <1.0            |
| 1,2,4 - Trimethylbenzene            | 95-63-6      | <1.0            |
| Dipropylene Glycol                  | 25265-71-8   | <1.0            |

## SECTION 4 – FIRST AID MEASURES

**Skin:**

- For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water and soap, if available, for several minutes.
- Get medical attention if irritation occurs.
- Remove contaminated clothing and launder before reuse.
- Remove contaminated shoes and discard.

**Eyes:**

- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

**Inhalation:**

- If inhaled, remove to fresh air.
- If not breathing give artificial respiration, preferably mouth-to-mouth.
- If breathing is difficult oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

**Ingestion:**

- If swallowed, give 1-2 glasses of water, but **Do Not** induce vomiting.
- **Do Not** give anything by mouth to an unconscious or convulsing person.
- Get medical attention.

## SECTION 5 – FIRE-FIGHTING MEASURES

**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 breathing apparatus and full protective equipment.

**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 and nitrogen, possible HCN and polyurethane combustion compounds

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

### **Personal Precautionary Measures:**

- Wear appropriate protective equipment (See Section 8).

### **Environmental Precautions:**

- Prevent from entering sewers, waterways or low areas.
- Prevent contamination of soil.

### **Spill Procedures:**

- Remove all sources of ignition and ventilate the area.
- Vapors are much heavier than air and as such will accumulate in low-lying areas, presenting a hazard to anyone entering such places. Low-lying areas should be ventilated and checked before permitting access.
- Soak up residue with an absorbent such as clay or sand. Place in a non-leaking container for proper disposal according to federal, state and local regulations.
- Clean up spill area with a decontamination solution made up of 50% isopropyl alcohol, 45% water, and 5% concentrated ammonia solution. Solution should cover the area for at least an hour.
- Allow for ventilation of containers with spill cleanup as CO<sup>2</sup> generation will occur with clean up solution.

## **SECTION 7 – HANDLING & STORAGE**

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

- Wear appropriate protective equipment. See Section 8 for normal handling recommendations.
- Avoid contact with eyes, skin, and clothing.
- Use in well ventilated area.
- Ground and bond containers before transferring liquid.

### **Recommendations on the conditions for safe storage:**

- Flammable storage.
- Keep containers tightly closed.
- Store in a cool dry place.
- Ground equipment to prevent static build-up.
- Ground containers when pouring or transferring.

## **SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure limits:**

| CHEMICAL NAME            | PEL     | TLV (8 Hours) |
|--------------------------|---------|---------------|
| Isophorone Diisocyanate  | N/A     | 0.005 ppm     |
| 1,2,4 - Trimethylbenzene | N/A     | 25 ppm        |
| Methyl Amyl Ketone       | 100 ppm | 50 ppm        |
| Cumene                   | N/A     | 50 ppm        |

### **Engineering controls:**

- Use local exhaust ventilation to assure that isophorone diisocyanate levels in the air are below established exposure limits.

### **Individual protection measures:**

- Use Viton or 4H gloves.
- Long sleeved clothing and Apron

### **Inhalation protection:**

- In operations where the exposure limits can be exceeded, wear a NIOSH approved respirator selected by a technically qualified person.
- If a respirator is worn, OSHA requires compliance with its respiratory protection program (29 CFR 1910.134).

### **Eye protection:**

- Safety glasses (with side shields)

### **Other hygienic practices and protective equipment:**

- Use proper ventilation.
- Follow good industrial chemical hygiene practices.
- Safety showers and eyewash stations should be available.
- Educate and train employees in safe use of product.
- Remove clothing or shoes that have become wet with this product. Launder clothing before reuse.
- Decontaminate or discard shoes.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear Liquid

**Physical state:** Liquid

**Color:** Transparent to slightly amber

**Odor:** Pungent, sweet

**Odor threshold:** 0.07 ppm

**pH:** N/A

**Melting point/freezing point:** -60°F

**Initial boiling point and boiling range:** 190°F

**Flash point:** 105°F

**Evaporation rate:** 0.2 (Butyl Acetate = 1)

**Flammability (solid, gas)** Flammable

**Upper/lower flammability or explosive limits:** 6.0 / 0.9

**Vapor pressure:** 0.8 kPa (6 mmHg) at 68°F

**Vapor density:** 4 (Air = 1)

**Relative density:** 0.96 g / cm<sup>3</sup> at 60°F

**Solubility:** Insoluble; will react with water to form CO<sup>2</sup>

**Partition coefficient: n-octanol/water:** N/A

**Auto-ignition temperature:** 470°F

**Decomposition temperature:** N/A

**Viscosity:** 1,600 centipoises at 20°C

## **SECTION 10 – STABILITY AND REACTIVITY**

### **Chemical Stability:**

- Stable under normal conditions of handling, use and transportation.

### **Hazardous Polymerization:**

- Will not occur under normal conditions.
- Avoid contact with water or moisture.
- Polymerization will occur releasing CO<sup>2</sup>.
- Pressure buildup in closed container may occur

### **Conditions to Avoid:**

- Avoid contact with heat, sparks, open flame, and static discharge.

### **Materials to Avoid:**

- Avoid contact with Moisture and water as polymerization will occur to release CO<sup>2</sup> which may pressurize non-vented containers.
- Avoid contact with alcohols, amines, acids, strong oxidizing agents and strong bases.

### **Hazardous Decomposition Products:**

- Combustion of the dried polymer may release; carbon dioxide, carbon monoxide, oxides of nitrogen and traces of HCN.

**Additional Guidelines:** Not Applicable.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

**Acute Health Effects have not been determined.** The following information is available on major components:

| CHEMICAL NAME | Oral LD50      | Dermal LD50        | Inhalation LC50   |
|---------------|----------------|--------------------|---|
| IPDI          | Rat 4825 mg/kg | Rabbit >7000 mg/kg | Rat 0.04 mg / L / 4 hours (literature value for aerosols) |
| MAK           | Rat 1600 mg/kg | Rabbit 12.6 ml/kg  | Rat 2000 ppm / 4 hrs                                      |

Aromatic 100 - No additional test data found for this product.

**Chronic Health Effects have not been determined.** The following information is available on major components:

| CHEMICAL NAME   | Oral LOEL   | Oral NOEL   | Inhalation NOEL   |
|---|---|---|---|
| IPDI - No additional test data found for this product.  |   |   |   |
| MAK - Based on animal data and structure-activity relationships, this product is not expected to cause nervous system damage. | 13 weeks, rat: 100 mg/kg (minor target organ effects: Kidney) (increase in weight: liver) | 13 weeks, rat: 20 mg/kg/day.<br><br>12 weeks, rat: 0.5% in drinking water (highest concentration tested). | 9 months, rat: 1025 ppm (highest concentration tested)<br><br>9 months, monkey: 1025 ppm (highest concentration tested) |

Aromatic 100 - No additional test data found for this product.

**Aggravated Conditions:** Not determined.

**Carcinogenicity:**

Carcinogenic effects of this product have not been determined. The following information is available on major components:

- IPDI - Not Classified as a Carcinogen.
- MAK - No additional test data found for this product.
- Aromatic 100 - No additional test data found for this product.

**Reproductive/Developmental Toxicity:**

Reproductive / Developmental health effects of this product have not been determined. The following information is available on major components:

- IPDI - No additional test data found for this product.
- MAK - No additional test data found for this product.
- Aromatic 100 - No additional test data found for this product.

**Mutagenicity:**

Mutagenicity of this product has not been determined. The following information is available on major components:

- IPDI - No additional test data found for this product.
- MAK - No additional test data found for this product.
- Aromatic 100 - No additional test data found for this product.

**Other: Aspiration Hazard**

The mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## **SECTION 12 – ECOLOGICAL INFORMATION**

Data from toxicity test

| CHEMICAL NAME            | Algae/Aquatic Plants                            | Fish  | Crustacea (Aquatic Invertebrates)    |
|--------------------------|---|---|--------------------------------------|
| Isophorone Diisocyanate  | 118.7 mg/L EC50<br>Scenedesmus subspicatus 72 h | 1.8 mg/L LC50<br>Leuciscus idus 48 h        | 83.7 mg/L EC50<br>Daphnia magna 24 h |
| Methyl Amyl Ketone       | N/A   | 131.0 mg/L LC50<br>Pimephales promelas 96 h | N/A                                  |
| Aromatic 100             | N/A   | 9.22 mg/L LC50<br>Oncorhynchus mykiss 96 h  | 6.14 mg/L EC50<br>Daphnia magna 48 h |
| 1,2,4 - Trimethylbenzene | N/A   | 7.72 mg/L LC50<br>Pimephales promelas 96 h  | 6.14 mg/L EC50<br>Daphnia magna 48 h |

**Biodegradation:**

Not readily biodegradable (by OECA criteria). Moderately / partial biodegradable.

**Bioaccumulation potential:**

Accumulation in organisms is not to be expected

**Mobility in soil:**

Absorption into solid soil phase is expected

**Other adverse effects:**

**Do Not** allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during introduction at low concentrations

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

**Other Disposal Considerations:**

**Do Not** dump into any sewers, on the ground or into any body of water.

**Contaminated Packaging:**

Empty drums may contain harmful vapors and residue. If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Dispose according to national or local regulations. Empty containers may contain explosive vapors. Keep from spark, flame, and heat sources. **Do Not** Cut or Weld.

**RCRA Status: (Classification applies to the product as sold.)**

D001 (Ignitable) D003 (Reactive)

## SECTION 14 – TRANSPORT INFORMATION

|                                |                        |
|--------------------------------|------------------------|
| UN #                           | 1263                   |
| UN proper shipping name:       | Paint                  |
| Hazard class:                  | 3                      |
| Packing group:                 | III                    |
| Environmental hazards:         | Not a marine pollutant |
| Guidance on transport in bulk: | N/A                    |

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

### US Federal Regulation:

| CHEMICAL NAME                       | CERCLA Reportable Quantity | CERCLA/SARA 302 Ext. Haz. Substances | TSCA - Sect. 12(b) Export Notification | SARA 313 Chemicals             |
|-------------------------------------|----------------------------|--------------------------------------|--|--------------------------------|
| Methyl Amyl Ketone                  | N/A                        | N/A                                  | Not Listed                             |                                |
| Isophorone Diisocyanate Homopolymer | N/A                        | N/A                                  | Not Listed                             |                                |
| Aromatic 100                        | N/A                        | N/A                                  | Not Listed                             |                                |
| Isophorone Diisocyanate             | N/A                        | 500 lbs. TPQ                         | Not Listed                             | 1.0 % de minimis concentration |
| 1,2,4 - Trimethylbenzene            | N/A                        | N/A                                  | Not Listed                             | 1.0 % de minimis concentration |

### US State Right to Know Regulations:

| CHEMICAL NAME  | RI Hazardous Substance List | MN          | NJ          | MA                        | PA                   |
|--|-----------------------------|-------------|-------------|---------------------------|----------------------|
| Methyl Amyl Ketone<br>110-43-0 (10 to 15)                    | Toxic                       | Present     | Present     | Present                   | Present              |
| Isophorone Diisocyanate Homopolymer<br>53880-05-0 (10 to 15) | Not Present                 | Not Present | Not Present | Not Present               | Not Present          |
| Aromatic 100<br>64742-95-6 (5 to 10)                         | Not Present                 | Not Present | Not Present | Not Present               | Not Present          |
| Isophorone Diisocyanate<br>4098-71-9 (1 to 5)                | Toxic                       | Skin        | Sn 1068     | Extraordinarily hazardous | Environmental hazard |
| 1,2,4 - Trimethylbenzene<br>95-63-6 (1 to 5)                 | Not Present                 | Present     | Sn 2716     | Present                   | Environmental hazard |

### CA Prop 65

| CHEMICAL NAME | CAS #   | APPROX % |
|---------------|---------|----------|
| Cumene        | 98-82-8 | < 0.01   |

### Canada

| CHEMICAL NAME  | Canadian Domestic Substances List | Canadian Ingredient Disclosure List   |
|--|-----------------------------------|---|
| Methyl Amyl Ketone<br>110-43-0 (10 to 15)                    | Listed                            | <b>B3</b> COMBUSTIBLE LIQUIDS; <b>D1A</b> VERY TOXIC MATERIALS<br><b>D2A</b> VERY TOXIC MATERIALS; <b>D2B</b> TOXIC MATERIALS |
| Isophorone Diisocyanate Homopolymer<br>53880-05-0 (10 to 15) | Listed                            | <b>B3</b> COMBUSTIBLE LIQUIDS; <b>D1A</b> VERY TOXIC MATERIALS<br><b>D2A</b> VERY TOXIC MATERIALS; <b>D2B</b> TOXIC MATERIALS |
| Aromatic 100<br>64742-95-6 (5 to 10)                         | Listed                            | <b>B3</b> COMBUSTIBLE LIQUIDS; <b>D1A</b> VERY TOXIC MATERIALS<br><b>D2A</b> VERY TOXIC MATERIALS; <b>D2B</b> TOXIC MATERIALS |
| Isophorone Diisocyanate<br>4098-71-9 (1 to 5)                | Listed                            | <b>B3</b> COMBUSTIBLE LIQUIDS; <b>D1A</b> VERY TOXIC MATERIALS<br><b>D2A</b> VERY TOXIC MATERIALS; <b>D2B</b> TOXIC MATERIALS |
| 1,2,4 - Trimethylbenzene<br>95-63-6 (1 to 5)                 | Listed                            | <b>B3</b> COMBUSTIBLE LIQUIDS; <b>D1A</b> VERY TOXIC MATERIALS<br><b>D2A</b> VERY TOXIC MATERIALS; <b>D2B</b> TOXIC MATERIALS |

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

|                     |   |
|---------------------|---|
| Health              | 3 |
| Flammability        | 2 |
| Physical Hazard     | 1 |
| Personal Protection | H |

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