

# Safety Data Sheet

## Carmacoat EPX - Part A

### Identification of the substance and of the supplier

**Material/Trade Name:** Carmacoat EPX – 106\*\*A P  
Carmacoat EPX – 107\*\*A U  
Carmacoat EPX – 205\*\*A TC  
Carmacoat EPX – 204\*\*A Ti

This Safety Data Sheet (SDS) / Material Safety Data Sheet (MSDS) covers products for all colors

**Principal Use:** Use as an epoxy floor coating topcoat.

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### Hazards Identification

#### GHS Classification

<b>Flammability:</b>	Category – Not classified
<b>Acute Toxicity – Oral:</b>	Category 4
<b>Acute Toxicity – Dermal:</b>	Category 5
<b>Skin Corrosion/Irritation:</b>	Category 2
<b>Serious Eye Damage/Irritation:</b>	Category 2A
<b>Sensitization – Respiratory:</b>	Category – Not classified
<b>Sensitization – Skin:</b>	Category 1
<b>STOT – Single Exposure:</b>	Category – Not classified
<b>STOT – Repeated Exposure:</b>	Category – Not classified
<b>Aspiration Hazard:</b>	Category – Classification not possible
<b>Aquatic Toxicity - Acute:</b>	Category 2

## Hazard Symbol/Signal Word



### Warning

#### Hazard Statement

Harmful if swallowed.

May be harmful in contact with skin. (Dermal)

Causes skin irritation.

Causes eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life.

#### Precautionary Statement:

##### Prevention:

Keep container tightly closed

Avoid breathing dust/fume/gas/mist/vapors/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Gently wash with plenty of soap and water.

IF ON CLOTHING: Take off contaminated clothing and wash before use.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SKIN irritation occurs: Get medical advice/attention.

IF EYE irritation persists: Get medical advice/attention.

##### Storage:

Protect from sunlight. Store in a well-ventilated place.

## Composition/Information on Ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions

CAS Number	Chemical Identity	Concentration (%)
13463-67-7	Titanium dioxide	1.0-5.0
25085-99-8	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	20.0-50.0
1330-20-7	Dimethylbenzenes	.05-1.0%

## First Aid Measures

- Inhalation:** Move to fresh air and if there are adverse reactions, call a physician.
- Eye Contact:** Flush thoroughly with a continuous stream of low-pressure water. Medical attention should be obtained promptly.
- Skin Contact:** Materials should be promptly wiped from the skin with clean cloth or paper towels. The affected area should be washed thoroughly with soap and plenty of water. Washing paint off the skin with solvents is not recommended because solvents may facilitate absorption through the skin. Any contaminated clothing, including shoes, should be removed and not reused until the articles are free entirely of the material.
- Ingestion:** Do not induce vomiting, immediately obtain medical attention.

## Firefighting Measures

- Flash Point:** >1500C Closed cup.
- Extinguishing Media:** Extinguishing powder, sand, dry chemical or carbon dioxide. Do not use water.
- Special Firefighting Procedure:** Firefighters should wear self-contained breathing apparatus.
- Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.
- Hazardous Combustion Products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: phenolics, carbon monoxide, carbon dioxide.

## Accidental Release Measures

### Action to take for spills/ leaks:

Soak up in absorbent material such as sand and collect in suitable container. Flush area with plenty of water. Wear adequate personal protective clothing and equipment. Keep out of irrigation ditches, sewers and water supplies. Ensure adequate ventilation.

### Disposal Method:

Do not dump into any sewers, on the ground or into any body of water. Dispose in an approved chemical waste landfill. Disposal method must be in compliance with all State/Provincial and local laws and regulations.

## Handling and Storage

### Handling

Ensure good ventilation/exhaustion at the workplace

Keep container tightly closed when not in use.

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

### Storage

Ensure adequate ventilation in storage area.

Do not store this material near flame, heat or strong oxidants.

## Exposure Controls/Personal Protection



**Eye/Face Protection** Safety goggles/glasses suitable for use with chemicals.

**Respiratory Protection** Always use appropriate Filter Mask/respirator (NIOSH/MSHA Approved).

**Skin Protection** Nitrile/polyethylene gloves, coveralls. Avoid cotton products. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Ventilation** Good general or local exhaust ventilation is required for usage.

**Hygienic Practices** Observe good work hygienic practices

## Physical and Chemical Properties

<b>Form</b>	Viscous liquid	<b>Vapor Pressure</b>	Not determined
<b>Color</b>	According to product specifications	<b>Vapor Density</b>	Not available
<b>Odor</b>	Pleasant	<b>Relative Density</b>	1.12
<b>Boiling Point</b>	Not determined	<b>Solubility in Water</b>	Not miscible
<b>Melting Point</b>	Not determined	<b>Solvent Content</b>	
<b>Flash Point</b>	>150°C	Organic Solvents	0%
<b>Flammability</b>	>200°C	VOC (EC)	Not determined
<b>Explosive Properties</b>	None	<b>Viscosity</b>	80 KU
<b>Oxidizing Properties</b>	None	<b>Evaporation Rate</b>	Not available
		<b>Solids Content</b>	100% (by volume)
			100% (by weight)

## Stability and Reactivity

<b>Stability</b>	Stable
<b>Hazard Polymerization</b>	Will not occur
<b>Hazardous Decomposition or By-products (non-thermal)</b>	No applicable information found

## Toxicological Information

**Acute Toxicity**

<i>Oral</i>	LD <sub>50</sub> (rat) likely to be >5,000 mg/kg
<i>Dermal</i>	LD <sub>50</sub> (rabbit) estimated to be >20,000 mg/kg.
<i>Inhalation</i>	No data is available on the product itself

**Corrosivity/Irritation**

<i>Eyes</i>	Irritant effect.
<i>Skin</i>	Irritant to skin and mucous membrane.
<i>Respiratory Tract</i>	No data available on the product itself.

**Skin Sensitization** Has caused allergic skin reactions in humans.

**Chronic Toxicity** Not classified as a carcinogen.

**STOT – Single Exposure** No data available.

**STOT – Repeated Exposure** Except for skin sensitization, repeated exposures are not anticipated to cause any insignificant adverse effects.

- Mutagenicity** Animal genetic toxicity studies were negative.
- Carcinogenicity** Not classified as a carcinogen.
- Reproductive Toxicity** In animal studies, did not interfere with reproduction

## Ecological Information

### Chemical Fate

Data for Component: **Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers**

### Movement & Partitioning

Bioconcentration potential is moderate (BCF between 100 and 3000 or Log P<sub>ow</sub> between 3 and 5).  
 Potential for mobility in soil is low (K<sub>oc</sub> between 500 and 2000)

### Henry's Law Constant (H)

< 6.94E-09 atm\*m<sup>3</sup>/mole; 25 °C Estimated

### Partition coefficient, soil organic carbon/water (K<sub>oc</sub>):

1,800 - 4,400 Estimated

### Persistence and Degradability

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

#### OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method
12 %	28 d	OECD 302B Test

## Ecotoxicity

Data for Component: **Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers**

Material is moderately toxic to aquatic organisms on an acute basis (LC<sub>50</sub>/EC<sub>50</sub> between 1 and 10 mg/L in most sensitive species tested). Toxicity to aquatic species occurs at concentrations above material's water solubility.

### Fish Acute & Prolonged Toxicity

LC<sub>50</sub>, fathead minnow (*Pimephales promelas*), 96 h: 3.1 mg/l

### Aquatic Invertebrate Acute Toxicity

EC<sub>50</sub>, water flea *Daphnia magna*, 48 h, immobilization: 1.4 - 1.7 mg/l

### Toxicity to Micro-organisms

IC<sub>50</sub>; bacteria, Growth inhibition, 18 h: > 42.6 mg/l

## Disposal Considerations

Must not be disposed together with household garbage.

Do not discharge into drains or watercourses.

Disposal must be made according to official regulations.

## Transportation Information

IATA-DGR Not regulated

IMDG Not regulated

## Regulatory Information

### Chemical Inventory:

PICCS (Philippines): Listed

EINECS (EU): Listed

KECI (KR): Listed

TSCA (US): Listed

DSL (CN): Listed

ENCS (JP): Listed

## Other Information

*The information contained in this MSDS is based on our present knowledge. It was obtained from a variety of sources and is believed to be accurate and current at the stated version date. This data is provided without warranty for the use of this information, application or processing described in this MSDS. Users should note the possibility of hazards occurring due to improper use of the product.*

**Department issuing MSDS:** Research and Development Department

**Date Issued:** September 10, 2021

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### ABBREVIATIONS AND ACRONYMS:

PICCS – PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES

EINECS – EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

KECI – KOREAN EXISTING CHEMICALS LIST

TSCA – TOXIC SUBSTANCES CONTROL ACT

DSL – DOMESTIC SUBSTANCES LIST

ENCS – JAPANESE EXISTING AND NEW CHEMICALS SUBSTANCES

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

VOC: Volatile Organic Compounds (USA, EU)

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent