


SAFETY DATA SHEET

1. IDENTIFICATION

- 1.1** Product identifier
 Trade name : PSC – 3610 Epoxy Colorant Titanium White
 Chemical name : Dispersion of Titanium Dioxide in Bisphenol A Diglycidyl Ether Resin Solution
- 1.2** Recommended use of the product and restrictions on use
 Recommended use : Industrial Use
 Non- recommended use(s) : None known
- 1.3** Details of the supplier of the safety data sheet
 Company : Polymer Science Corporation.
 : Unit 1133, 6027 – 79 Avenue S.E
 : Calgary, Alberta, Canada T2C 5P1
 Telephone : 403 287 2751
 Fax : 403 287 2766
 Website : www.polymer-sciencecorp.com
- 1.4** Emergency telephone number
 Emergency : In case of emergency call CANUTEC: 613-996-6666

2. HAZARD IDENTIFICATION

- 2.1** Classification of the substance or mixture
 Eye Irritant : Category 2B
 Skin Irritant
- 2.2** Label Elements
 Symbol :
- 
- Signal word : Warning
 Hazard statement : Causes eye irritation
 Causes skin irritation
 May cause an allergic skin reaction
 Toxic to aquatic life with long lasting effects
- Precautionary Statements : Wear protective gloves / protective clothing / eye protection / face protection.
 Use only outdoors or in a well ventilated area.
 Avoid release to the environment

3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1** Substances
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- 3.2** Mixtures

Chemical Name	C.A.S.#	Concentration
Bisphenol A Diglycidyl Ether Resin	25068-38-06	15 – 25
Titanium Dioxide	013463-67-7	50 – 60

4. FIRST AID MEASURES

- EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. If eye irritation persists: Get medical attention.
- SKIN CONTACT:** Wash with soap and water or use waterless hand cleaners. Do not use solvents or thinners to clean skin. Get medical attention if irritation persists.
- INHALATION:** Should symptoms develop, remove victim to fresh air. If breathing is difficult, qualified personnel may administer oxygen. If victim is not breathing start artificial respiration. Get medical attention.
- INGESTION:** Give liquids if victim is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician. Immediately call a POISON CENTER / Doctor

5. FIRE-FIGHTING MEASURES

- 5.1** Extinguishing media

- Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam
 Unsuitable extinguishing media : Full water jet, because this may spread the fire.
- 5.2 Hazards**
 Flammable properties and hazards : Product is not considered a fire hazard. Containers can build up pressure if exposed to heat.
 Hazardous combustion products : Hazardous decomposition products formed under fire conditions are Carbon dioxide and Carbon monoxide.
- 5.3 Fire-fighting instructions:**
 Do not inhale combustion gases. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures.**
 Use personal protective equipment. Wear chemical safety glasses, rubber boots and heavy rubber gloves.
 Ensure adequate ventilation
- 6.2 Environmental precautions**
 Do not allow to enter drains, waterways, sewers, basements or confined areas.
 Do not discharge into the subsoil / soil. Absorb spills with inert material and place in a chemical waste container.

7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
 Avoid all personal contact. Use personal protective equipment. Use adequate ventilation.
- 7.2 Hygiene considerations.**
 Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Wash contaminated clothes before reuse. Do not eat, drink or smoke when handling this product.
- 7.3 Safe storage procedures**
 Keep away from heat. Keep containers tightly closed in a dry well ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	OTHER LIMIST
Bisphenol A Diglycidyl Ether Resin	25068-38-6	No data	No data	No data
Titanium Dioxide	013463-67-7	TWA: 15 mg/m ³ Total dust	TWA: 10 mg/m ³	IDLH: 5000 mg/m ³

8.2 EXPOSURE CONTROLS ENGINEERING CONTROLS

Good general ventilation should be sufficient to control airborne levels.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Equipment	: Normally when good engineering controls are used, no respiratory protection is needed
Eye Protection	: Use tightly fitting chemical splash goggles. Wear face protection, wear as appropriate.
Hand Protection	: Use impermeable gloves. Neoprene gloves
Body Protection	: Use impervious clothing and chemical resistant boots. Consider using resistant coveralls and aprons, if extensive exposure is possible.
Other Protective Equipment	: Ensure that eyewash stations and safety showers are close to the workstation location.
General Hygiene Consideration	: Do not breathe mist or vapor. Avoid all contact. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothes home.
Environmental Exposure Controls	: Avoid runoff into storm sewers and ditches which lead to waterways. May be hazardous to the environment if released in large quantities

9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	: Not Applicable
Vapor Density	: Not Applicable
Boiling Point	: Not Applicable
PH	: Not Applicable
Specific Gravity	: 1.7 – 1.9 g/ cm ³
Viscosity	: 5000 cP
VOC content	: 0
Evaporation rate	: Slower than n-Butyl Acetate
Solubility in water	: Negligible
Other Properties	: Opaque bright white liquid.

10 STABILITY AND REACTIVITY

Stability	: Stable under normal conditions
Hazardous Polymerization	: Will not occur under normal conditions
Conditions to avoid	: High temperatures
Incompatibility with other materials	: Oxidizing materials, acid, alkalis, peroxides.

11 TOXICOLOGICAL INFORMATION

11.1 Toxicological Information

May cause sensitization by skin contact.

11.2 Chronic Toxicological Effects

Skin sensitization.

11.3 Irritation or Corrosion

Skin Irritation. Irritating to eyes.

11.4 Symptoms related to Toxicological Characteristics

Skin Irritation. Slight Irritant to eyes.

Numerical measures of toxicity- Component Information

Hazardous Components (Chemical Name)	CAS #	Oral LD50	IARC	OSHA
Titanium Dioxide	013463-67-7	>10000 mg/kg (Rat)	Group 2B	X
IARC (International Agency for Research on Cancer)				
Group 2B – Possibly Carcinogenic to Humans				
OSHA (Occupational Safety and Health Administration of the US Department of Labor)				
X- Present				

11.5 Carcinogenicity

No significant exposure to primary particles of titanium dioxide is thought to occur from use in paints since the pigment is bound to other materials.

11.6 Germ Cell Mutagenicity.

Not Applicable

11.7 Reproductive Toxicity

Not Applicable

11.8 Specific target organ toxicity (single exposure)

Not Applicable

11.9 Specific target organ toxicity (repeated exposure)

Not Applicable

12 ECOLOGICAL INFORMATION

12.1 General Ecological Information

Avoid release to the environment. Toxic to aquatic life with long lasting effects.

12.2 Ecotoxicity

Toxic to aquatic organisms (LC50 between 1 and 10 mg/L)

12.3 Persistence and degradability.

Not readily biodegradable.

12.4 Bioaccumulation potential

No data available

12.5 Mobility in soil

Not reported, unknown.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method

Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations.

Do not discharge substance/product into sewage system.

14 TRANSPORTATION INFORMATION

14.1 Identification, UN number : Not Regulated

14.2 Shipping Name : Not Applicable

14.3 Hazard Class : Not Applicable

14.4 Packing Group : Not applicable

Transport over land ADR/RID : Not regulated for transport

Transport over sea IMDG : Not regulated for transport

Transport by air ICAO/IATA : Not regulated for transport

15 OTHER INFORMATION

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