


SAFETY DATA SHEET

1. IDENTIFICATION

- 1.1** Product identifier
 Trade name : PSC – 3640 Epoxy Colorant Royal Blue
 Chemical name : Dispersion of Titanium Dioxide and pigments 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.polymersciencecorp.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
CI Pigment Blue 15, Copper phthalocyaninato	147-14-8	1 - 5

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 LIMITS
Bisphenol A Diglycidyl Ether Resin	25068-38-6	No data	No data	No data
Titanium Dioxide	013463-67-7	TWA: 15 mg/m ³	TWA: 10 mg/m ³	IDLH: 5000 mg/m ³
CI Pigment Blue 15	147-14-8	Total dust TWA: 1 mg/m ³ Cu Dust and Mist		

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/ cm³
 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
CI Pigment Blue 15	147-14-8	Not Available		

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 Carcinogenity
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 biodegradeable.
- 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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SDS prepared by : Polymer Science Corp. 403 287 2751

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