

1. IDENTIFICATION

- 1.1 Product identifier
 Trade name : **PSC 3601 Epoxy Colorant Black**
 Chemical name : Solvent based Black pigment dispersion
- 1.2 Recommended use of the product and restrictions on use
 Recommended use : Industrial Use, Tint for Epoxy Coatings
 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
 2.1.1 Physical Hazards:
 Flammable Liquids Category 3
 2.1.2 Health Hazards
 Skin Corrosion / irritation Category 2
 Carcinogenicity Category 2
 Aspiration toxicity Category 1
 2.1.3 Environmental Hazards
 Harmful to aquatic life with long lasting effects.
- 2.2 Label Elements
 Symbol :



- Signal word : Danger
- Hazard statement : Flammable liquid and vapor
 Causes skin irritation
 Suspected of causing cancer
 May be fatal if swallowed or enters airways
- Precautionary Statements : Wear protective gloves / protective clothing / eye protection / face protection.
 Use only outdoors or in a well ventilated area.
 Do not eat, drink or smoke when using this product
 Wash with plenty of water and soap thoroughly after handling
 Keep away from heat / sparks / open flames / hot surfaces.
 Keep container tightly closed
 Avoid breathing fume / vapors/ spray.

3 COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 Substances
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 3.2 Mixtures

StoneSet / HARDENER

HAZARDOUS INGREDIENTS

	C.A.S.#	WEIGHT %
Propylene Glycol MonoMethyl Ether Acetate	108-65-6	10 – 20
Carbon Black	1333-86-4	15 – 25
Aromatic Naptha Heavy	64742-94-5	10 – 15
Butyl Alcohol	78-92-2	1 – 5
Naphthalene	91-20-3	1 – 5

Ethylbenzene	100-41-4	0.1 – 1
Xylene	1330-20-7	1 – 5

4 FIRST AID MEASURES

- EYE CONTACT:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention
- SKIN CONTACT:** IF ON SKIN: Take off immediately all contaminated clothing and shoes. Rinse skin, washing thoroughly with soap and water. Wash contaminated clothing before use. Get medical attention if irritation persists.
- INHALATION:** IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing
- INGESTION:** IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. Rinse mouth. Do not induce vomiting.

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 : This product is flammable. Containers can build up pressure if exposed to heat.
 Hazardous combustion products : Burning produces heavy smoke. Fire may produce irritating and / or toxic gases. In the event of fire and / or explosion do not breathe fumes.
- 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. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures.**
 Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Keep people away from and upwind of spill / leak. Evacuate personnel to safe areas. Take precautionary measures against static discharges.
- 6.2 Environmental precautions**
 Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained
- 6.3 Methods and materials for containment and cleaning up**
 Prevent further leakages or spillage if safe to do so. Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
 Avoid all personal contact. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust / fume / gas / mist / vapor / spray. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Use only with adequate ventilation. Keep away from heat, sparks, flame and other sources of ignition.
- 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. Remove contaminated clothing and protective equipment before entering eating areas. Avoid all contact.
- 7.3 Safe storage procedures**
 Keep away from heat. Keep containers tightly closed in a dry well ventilated place. Empty containers retain product residue and can be hazardous. Keep / store only in original container.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Hazardous Components (Chemical Name)		ACGIH TLV	OSHA PEL	NIOSH IDLH	Alberta
Carbon Black	1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of polycyclic aromatic hydrocarbons PAH	TWA: 3.5 mg/m ³
2-Butanol	78-92-2	TWA: 100 ppm	TWA: 150 ppm TWA: 450 mg/m ³	IDLH: 2000 ppm TWA: 100 ppm TWA: 305 mg/m ³ STEL: 150 ppm STEL: 455 mg/m ³	TWA: 100 ppm TWA: 303 mg/m ³
Xylenes	1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³		TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³
Naphthalene	91-20-3	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm	TWA: 100 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³

Ethylbenzene	100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³	STEL: 75 mg/m ³ IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³
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8.2 EXPOSURE CONTROLS ENGINEERING CONTROLS

Ensure adequate ventilation, especially in confined area. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Equipment	: Wear a NIOSH-certified (or equivalent) organic vapour / particulate respirator.
Eye Protection	: Use tightly fitting chemical splash goggles. Wear face shield if splashing hazard exists.
Hand Protection	: Use impermeable gloves. Neoprene or butyl-rubber gloves. Refer to glove supplier information on breakthrough time for specific gloves. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
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

Appearance:

Physical State	: Liquid.
Color	: Black.
Odor	: Slight. (solvent).

Properties

Vapor Pressure	: 90.2255639 mmHg @ 25 °C / 77 °F
Vapor Density	: 4.7
Boiling Point	: 99 °C / 210 °F
Flash Point	: 46 °C / 115 °F
PH	: Not determined
Density	: 1.1024 g/ cm ³
Specific Gravity	: 1.1
Lower explosive limit	: 1
Upper explosive limit	: 13
Solubility in water	: Not determined
Autoignition temperature	: Not determined

10 STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions
Incompatible Materials	: Strong oxidizing agents.
Hazardous Polymerization	: Will not occur under normal conditions
Conditions to avoid	: High temperatures, heat, flames, sparks.
Hazardous decomposition products	: Carbon dioxide (CO ₂), Carbon monoxide (CO).

11 TOXICOLOGICAL INFORMATION

11.1 Toxicity

Ingredient Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol Monomethyl Ether Acetate. 108-65-6	=8532 mg/kg, Rat	>5000 mg/kg, Rabbit	
Carbon Black 1333-86-4	>15400 mg/kg, Rat	>3 g/Kg, Rabbit	
Aromatic Naphtha, Heavy 64742-94-5	>5000 mg/kg, Rabbit	>2000 mg/kg, Rabbit	590 mg/m ³ , Rat 4 h
Xylenes 1330-20-7	= 4300 mg/kg Rat	> 1700 mg/kg Rabbit	= 47635 mg/L Rat 4h = 5000 ppm Rat 4h
Naphthalene 91-20-3	= 1110 mg/kg Rat	= 1120 mg/kg Rabbit	> 340 mg/m ³ Rat 1h
Ethylbenzene 100-41-4	= 3500 mg/kg Rat	= 15400 mg/kg Rabbit	= 17.2 mg/L Rat 4h

11.2 Skin Corrosion and / or irritation

Causes skin irritation

11.3 Eye Damage or irritation

Not applicable. Not likely to be a route of exposure.

11.4 Respiratory and skin sensitization.

Not applicable

11.5 Germ cell mutagenicity

Not applicable

11.6 Carcinogenicity

Suspected of causing cancer

According to IARC, volume 33, no significant exposure to primary particles of carbon black is thought to occur from use in paints since the pigment is bound to other materials.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon Black 1333-86-4	A3	Group 2B		X
Naphthalene 91-20-3	A3	Group 2B	Reasonable Anticipated	X
Ethylbenzene 100-41-4	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3: Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B: Possibly Carcinogenic to Humans.

NTP (National Toxicology Program)

Reasonable Anticipated – Reasonable Anticipated to be a Human Carcinogen.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X: Present.

11.7 Reproductive Toxicity

No known significant effects or critical hazards

11.8 Specific Target Organs Effect

Not applicable

11.9 Aspiration hazards

No aspiration hazard expected.

12 ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Environmental precautions

Prevent product from entering drains

Marine pollutant

This product contains a chemical which is listed as a severe marine pollutant according to DOT

Marine pollutant

This material meets the definition of a marine pollutant

12.2 Persistence and degradability

No information available

12.3 Bioaccumulation

No information available

12.4 Mobility in Soil

No information available

12.5 Other Adverse effects

No information available.

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. Do not contaminate pond, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.

14 TRANSPORTATION INFORMATION**14.1** Identification, UN number : UN 1263**14.2** Shipping Name : Paint related material**14.3** Hazard Class : 3**14.4** Packing Group : III**14.5** Environmental hazard : Yes. This material meets the definition of a marine pollutant.**15 OTHER INFORMATION**

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SDS prepared by : Polymer Science Corp. 403 287 2751

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