POLYMER SCIENCE CORPORATION

SAFETY DATA SHEET

1. IDENTIFICATION

1.1 Product identifier

Trade name **: PSC 1050, 1051, 1052, 1053 TankCoat**

Chemical name **: Water-based Paint**

1.2 Recommended use of the product and restrictions on use

Recommended use : Industrial Use Only

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 mixture

Very thick opaque liquid, paint odor.

2.1.1 Health Hazards.

Skin Corrosion / irritation Category 3. Causes Mild Skin Irritation

Serious Eye Damage / Eye Irritation Category 2B.Causes Eye Irritation

2.1.2 Environmental Hazards

Harmful to aquatic life

2.1.3 Other Hazards Caution- Spillages may be slippery

2.1.4 Hazards summary Irritating to eyes and skin
May cause irritation to the respiratory system.
Harmful to aquatic life

2.2 Label Elements

Signal word : Warning

Hazard statement : H316: Causes mild skin irritation
: H320: Causes eye irritation
: H402: Harmful to aquatic life

Precautionary Statements :P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

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3.2 Mixtures

PSC 105x TankCoat

HAZARDOUS INGREDIENTS	C.A.S.#	WEIGHT %
Titanium Dioxide	13463-67-7	5 - 10
C.I. Pigment Black 7	1333-86-4	5 - 10

4 FIRST AID MEASURES

4.1 Description of first aid measures

EYE CONTACT: Rinse cautiously with eyewash solution or clean water, holding the eyelids apart for several minutes. Remove contact lenses if present and easy to do. If eye irritation persists: Get medical attention. Continue rinsing eyes during transport to hospital

SKIN CONTACT: If on skin or hair, take off immediately all contaminated clothing and shoes. Rinse skin, washing thoroughly with water. Get medical attention if irritation persists.

INHALATION: Remove patient from exposure, keep warm and at rest. Get medical attention

INGESTION: Clean mouth with water and drink afterwards a glass of water. Keep respiratory tract clear. Do not induce vomiting. Immediately call a POISON CENTER / Doctor

4.2 Indication of any immediate medical attention or special treatment needed

Note to Physicians Treat Symptomatically

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam. Compatible with all standard fire fighting techniques.

Unsuitable extinguishing media : None known

5.2 Hazards : Not applicable. Aqueous solution. Non-combustible

5.3 Fire-fighting instructions : None.

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. Prevent further leakage or spillage if safe to do so.

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. If the product contaminates rivers and lakes or drains inform the respective authorities.

6.3 Methods and materials for containment and cleaning up

Provide adequate ventilation. Caution: Spillages may be slippery. Ventilate the area. Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust) Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Use only in well ventilated area. Avoid breathing vapor or mist. Avoid all personal contact. Use personal protective equipment. Avoid generation of mist. Emergency shower and eye wash facilities should be readily available. Do not eat, drink or smoke at the work place.

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.

7.3 Safe storage procedures

Keep at a temperature not exceeding 50 ºC. Do not allow material to freeze. Keep container tightly closed. Store in cool/well ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Hazardous Components (Chemical Name)	**Occupational Exposure Limits**
Titanium Dioxide	15 mg/m^3. TWA (dust total)*
C.I. Pigment Black 7	3.5 mg/m^3. ACGIH TLV TWA.

* Both pigments are dispersed in a liquid phase. They are not present in solid state as dust or loose particles.

8.2 EXPOSURE CONTROLS

ENGINEERING CONTROLS

Use local exhaust ventilation to maintain airborne concentrations at safe levels. Ensure adequate ventilation, especially in confined areas. Suitable respiratory equipment should be used in cases of insufficient ventilation or where demand it.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Equipment : Respiratory protection not normally required. If exposure cannot be controlled below applicable limits, use the the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust /mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow the manufacturer's instructions.

Eye Protection : Use tightly fitting chemical splash goggles. Wear face shield if splashing hazard exists. Contact lenses should not be worn when working with chemicals because they contribute to the severity of an eye injury in case of exposure.

Hand Protection : Use impermeable gloves. Neoprene or butyl-rubber 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical State : Thick Liquid.

Color : Black, white, green, blue etc .

Odor : Slight Solvent and Ammonia odor.

Properties

Boiling Point : Not available

Freezing Point	: Not available
Flash Point	: Not available.
PH	: 8 - 9
Specific Gravity	: 1.35 – 1.45 g/ cm^3
Viscosity	: 20.000 CPR
VOC content	: Less than 30 g/L
Evaporation rate	: Not applicable
Solubility in water	: Soluble
Vapour pressure	: Not applicable
Vapour density	: No data
Auto ignition Point	: Not applicable
Decomposition Temperature	: Not applicable
Explosive properties	: Not applicable
Oxidising Properties	: No data

10 STABILITY AND REACTIVITY

Reactivity	: No data available.
Chemical Stability	: Stable under normal conditions
Possibility of hazardous reactions	: None under normal processing.
Conditions to avoid	: Excessive heat, freezing.
Incompatible Materials	: None known.
Hazardous decomposition products	: None known.

11 TOXICOLOGICAL INFORMATION

Ingestion	: Aspiration hazard. Do not ingest
Inhalation	: May cause irritation of nose, throat or respiratory tract. Avoid inhalation.
Skin Contact	: May cause skin irritation. Avoid skin contact.
Eye Contact	: Material will cause irritation. Avoid eye contact
Skin corrosion/irritation	: Irritating to skin
Serious eye damage/irritation	: Irritating to eyes.
Sensitization	: Not sensitizing
Carcinogens	: Possible cancer hazard. Contains materials which may cause cancer based on animal data.
	: Contains TiO_2 which is listed by IARC as a possible carcinogen (Group 2B) based on animal data. Neither long Term animal studies, nor human epidemiology studies of workers exposed to TiO_2 provide an adequate basis to Conclude TiO_2 is carcinogenic. TiO_2 is not classified as a carcinogen by NTP, U.S. OSHA or the U.S. EPA IARC has also classified Carbon Black as a possibly carcinogenic to humans (Group 2B). ACGIH-A4 Not classifiable as a Human Carcinogen.
Mutagenicity	: No evidence of mutagenic effects.
Teratogenicity	: No evidence of teratogen effects.
Reproductive toxicity	: No evidence of reproductive effects.
Aspiration Hazard	: No aspiration hazard expected.

12 ECOLOGICAL INFORMATION

12.1 Toxicity	:Harmful to aquatic life. Carbon Black: 96 hr LC50 freshwater fish> 1000 mg/L; 24 hr EC freshwater invertebrates> 5600 mg/L
12.2 Persistence and Degradability	: No information available.
12.3 Bioaccumulative potential	: No information available.
12.4 Mobility in Soil	: No information available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of this material and its container to hazardous or special waste collection point. 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	: Water based Paint. Not Regulated
14.2 Shipping Name	:
14.3 Packing Group	:

15 OTHER INFORMATION

Preparation Date	: April 8, 2017
SDS prepared by	: Polymer Science Corp. 403 287 2751

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