

## Section 1. Product and Company Identification

Product Name	SafeCoat® PVC
Manufacturer	Quantum Technical Services Ltd. (Dba Quantum Chemical) 15 Riel Drive St. Albert, AB, Canada T8N 3Z2 Tel: (780) 458-3355 (non-emergency phone number) Fax: (780) 458-2852 <a href="http://www.quantumchemical.com">www.quantumchemical.com</a>
Chemical Emergencies	For 24-Hour Emergency call Canutec at 613.996.6666

## Section 2. Hazards Identification

### 2.1 Classification:

**Regulatory Status:** This product contains a small amount of Titanium Dioxide which is considered possibly hazardous in its powder form. IARC lists TiO<sub>2</sub> powder as 2B “possibly carcinogenic to humans” when it is inhaled as dust. All TiO<sub>2</sub> in this product is dispersed in liquid, and is not inhalable.

This product contains a small amount of Carbon Black which is considered possibly hazardous in its powder form. IARC lists Carbon Black powder as 2B “possibly carcinogenic to humans” when it is inhaled as dust. All Carbon Black in this product is dispersed in liquid, and is not inhalable.

<b>GHS Classification:</b>	<b>Flammable Liquids</b>	<b>Category 2</b>
	<b>Acute Toxicity- Oral</b>	<b>Category 5</b>
	<b>Acute Toxicity - Inhalation</b>	<b>Category 4</b>
	<b>Skin Corrosion/Irritation</b>	<b>Category 3</b>
	<b>Serious Eye Damage/Irritation</b>	<b>Category 2A</b>
	<b>Specific Target Organ Systemic Toxicity (single exposure)</b>	<b>Category 3 (narcotic effects)</b>
	<b>Aspiration Hazard</b>	<b>Category 2</b>

### 2.2 Label Elements:

#### Pictogram:



**Signal Word:** Danger

**Hazard Statements:**

- H225** Highly flammable liquid and vapour.
- H303** May be harmful if swallowed.
- H305** May be harmful if swallowed and enters airways.
- H316** Causes mild skin irritation.
- H319** Causes serious eye irritation.
- H333** May be harmful if inhaled.
- H336** May cause drowsiness or dizziness.

**Precautionary Statements:****Prevention:**

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P233** Keep container tightly closed.  
**P240** Ground and bond container and receiving equipment.  
**P241** Use explosion-proof electrical/ventilating/lighting equipment.  
**P242** Use non-sparking tools.  
**P243** Take action to prevent static discharge.  
**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.  
**P264** Wash hands thoroughly after handling.  
**P271** Use only outdoors or in a well-ventilated area.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**P370+P378** In case of fire: Use appropriate media to extinguish.  
**P304+P312** IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell.  
**P332+P313** If skin irritation occurs: Get medical advice/attention.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P337+P313** If eye irritation persists: Get medical advice/attention.  
**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.  
**P331** Do NOT induce vomiting.

**Storage:**

**P403+P233** Store in a well-ventilated place. Keep container tightly closed.  
**P235** Keep cool.  
**P405** Store locked up.

**Disposal:**

**P501** Dispose of contents/container to appropriate waste or reclaimer in accordance with local and national regulations.

**Section 3. Composition and Ingredient Information**

<u>Common Name</u>	<u>CAS No.</u>	<u>WT%</u>
Methyl Ethyl Ketone	78-93-3	10-30
Tert Butyl Acetate.	540-88-5	10-30
Ammonium Polyphosphate	68333-79-9	10-30
Titanium Dioxide	13463-67-7	3-7
Carbon Black	1333-86-4	0.1-1

**Section 4. First Aid Measures****Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation continues.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If redness, swelling, pain, and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Inhalation:**

If inhaled, remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Ingestion:	If swallowed, do not induce vomiting, transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next six hours, transport to the nearest medical facility: fever greater than 101° F (38.3° C), shortness of breath, chest congestion or continued coughing or wheezing. Give nothing by mouth, do not induce vomiting.
Notes to Physician: Most Important Symptoms/ Effects Acute and Delayed:	Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and or blurred vision. Defatting dermatitis signs and symptoms may include a burning sensation, and/or a dried cracked appearance. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
Immediate Medical Attention, Special Treatment	Causes central nervous system depression. Call a Doctor or poison control center for guidance.

## Section 5. Fire Fighting Measures

Flash Point:	< 8°C
Specific Hazards:	Containers exposed to intense heat from fires should be cooled with large quantities of water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Extinguishing Media:	Alcohol resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.
Unsuitable Extinguishing Media:	Do not use a water jet.
Protective Equipment for Fire Fighters:	Wear full protective clothing and self-contained breathing apparatus.
Other Advice:	Keep adjacent containers cool by spraying with water.

## Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:	Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low areas. Shut off leaks, if possible without personnel risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire-fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
Methods and Material for Containment and Clean Up:	For small liquid spills transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely.
Additional Advice:	Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapour may form an explosive mixture with air.

## Section 7. Handling and Storage

Handling:	Avoid breathing vapours or contact with material. Use only in well-ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see section 8.
Storage:	Must be stored in well-ventilated area, away from sunlight, ignition sources and other sources of heat. Keep away from aerosols, flammables, oxidizing agents, and corrosives. The vapour is heavier than air. Beware of accumulation in pits and confined spaces.

## Section 8. Exposure Controls and Personal Protection

Respiratory Protection:	If engineering controls do not maintain airborne concentrations to an adequate level, select suitable respiratory protection. Use a NIOSH approved respirator with an organic vapour cartridge.				
Eye Protection:	Chemical splash goggles.				
Hand Protection:	Wear protective gloves, natural or butyl rubber for long term protection.				
Exposure Limits for MEK:	<table> <tr> <td>TWA (ACGIH)</td> <td>200 ppm</td> </tr> <tr> <td>STEL (ACGIH)</td> <td>300 ppm</td> </tr> </table>	TWA (ACGIH)	200 ppm	STEL (ACGIH)	300 ppm
TWA (ACGIH)	200 ppm				
STEL (ACGIH)	300 ppm				

Exposure limits for Carbon Black and Titanium Dioxide are for respirable dust only; in our opinion these do not apply to this product where these products are fully dispersed in liquid.

## Section 9. Physical and Chemical Properties

Physical State:	Liquid.
Odor:	Strong Solvent Odor.
Specific Gravity:	1.18.
Odor Threshold (ppm):	71 ppb.
Vapour Pressure (mm Hg @ 20°C):	Approximately 72.
Vapour Density (Air=1):	>1.
Evaporation Rate:	Approximately 3.7.
Boiling Point:	79.6°C.
Flash Point:	< 8°C.
Solubility in Water:	Not Soluble.
PH:	Not available.
Freezing Point (°C):	Not available.
VOC:	347 g/litre.

## Section 10. Stability and Reactivity

Conditions of Instability:	Stable under normal conditions.
Incompatibility:	Keep away from peroxides, oxidizing agents, strong acids, amines.
Reactivity Conditions:	Highly reactive with oxidizing agents and reducing agents. Slightly reactive to organic acids and alkalis.
Hazardous Products of Decomposition:	Carbon monoxide, carbon dioxide and other organic compounds will be evolved.

## Section 11. Toxicological Information

No information for product itself.

### Methyl Ethyl Ketone

Acute Toxicity:	Acute Oral Toxicity	Low Toxicity LD50>2000 <5000 mg/kg (rat)
	Acute Dermal	LD50>5000 mg/kg (rabbit)
	Acute Inhalation	LC50>5000 ppm
Irritancy:	Skin	Irritant
	Eyes	Irritant
	Respiratory System	Irritant
Sensitizing Capability:	Not a skin sensitizer.	
Aspiration Hazard:	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.	
Germ Cell Mutagenicity:	Not mutagenic.	
Reproductive and Developmental Toxicity:	Not expected to impair fertility. Not a developmental toxicant.	
Carcinogenicity:	No.	
Specific Target Organ Toxicity: Single exposure:	May cause drowsiness or dizziness.	
Specific Target Organ Toxicity: Repeated Exposure:	Low systemic toxicity on repeated exposure.	

### Tert-Butyl Acetate

Acute Toxicity:	Acute Inhalation	11 mg/l estimate
	Exposure time 4 h.	
Specific Target Organ Toxicity: Single Exposure:	Respiratory System:	Category 3 respiratory tract irritation
	Central Nervous System:	Category 3 narcotic effects

Carcinogenicity of TiO<sub>2</sub>: **This information pertains to exposure to and inhalation of TiO<sub>2</sub> dust. In our opinion it does not apply to this product which has completely dispersed the TiO<sub>2</sub> into the liquid.**

In lifetime inhalation studies, rats were exposed for 2 years to respectively 10, 50 and 250 mg/m<sup>3</sup> of respirable TiO<sub>2</sub>. Slight lung fibrosis was observed at 50 and 250 mg/m<sup>3</sup> levels. Microscopic lung tumours were also observed in 13 percent of the rats exposed to 250 mg/m<sup>3</sup>, an exposure level that caused lung overloading and impairment of rat lungs clearance mechanisms.

In further studies, these tumours were found to occur only under particle overload conditions in a uniquely sensitive species, the rat, and have little or no relevance for humans. The pulmonary inflammatory response to TiO<sub>2</sub> particles exposure was also found to be much more severe in rats than in other rodent species.

In February 2006, IARC has re-evaluated Titanium dioxide pertaining to Group 2B: "possibly carcinogenic to humans", based upon inadequate evidence in humans and sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. IARC evaluation guidelines consider the generation of tumours, in 2 different studies within the same animal species, to be adequate criteria for an assessment of sufficient evidence.

The conclusions of several epidemiology studies on more than 20000 TiO<sub>2</sub> industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO<sub>2</sub> dust on the human lung. Mortality from other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO<sub>2</sub> dust.

**Carcinogenicity of Carbon Black:** This product contains a small amount of Carbon Black which is considered possibly hazardous in its powder form. IARC lists Carbon Black powder as 2B “possibly carcinogenic to humans” when it is inhaled as dust. All Carbon Black in this product is dispersed in liquid, and is not inhalable.

## Section 12. Ecological Information

### Methyl Ethyl Ketone

Acute Toxicity:	Fish	Practically non toxic	LL/EL/IL50 > 100 mg/l
	Aquatic		
	Invertebrates	Practically non toxic	LL/EL/IL50 > 100 mg/l
	Algae	Practically non toxic	LL/EL/IL50 > 100 mg/l
	Microorganisms	Practically non toxic	LL/EL/IL50 > 100 mg/l

Mobility: Dissolves in water.

Persistence/Degradability: Readily biodegradable. Oxidizes rapidly by photo-chemical reactions in air.

Bioaccumulation: Not expected to bioaccumulate.

## Section 13. Disposal Considerations

Waste Disposal: In accordance with municipal, provincial and federal regulations.

## Section 14. Transport Information

### DO NOT FREEZE.

T.D.G. Classification: Class 3, UN 1263, Packing Group 2.

Shipping Name: Paint

This product has been classified as Class 3 based on a lab test.

## Section 15. Regulatory Information

TSCA: All components of this product are listed on this inventory.

DSL: All components of this product are listed on this inventory.

## Section 16. Other Information

Revision Date: February 27, 2023

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