

Section 1. Product and Company Identification

Product Name	PRECIDIUM™ PUD (Natural/Colors) PRECIDIUM™ brand name is a trademark of Quantum Chemical, and is being used with permission.
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 www.quantumchemical.com
Chemical Emergencies	For 24-Hour Emergency call Canutec at 613.996.6666

Section 2. Hazards Identification

2.1 Classification:

GHS Classification:

Skin Irritant
Eye Irritant

Category 3

Category 2B

2.2 Label Elements:

Pictogram:



Signal Word:

Warning

Emergency Overview:

Certain colors will contain carbon black up to 2%. Carbon black is listed by IARC as Group 2B, possible human carcinogen based on inhalation of dust. In this product all carbon black is dispersed in liquid and there is no possibility of inhalation of dust.

Hazard Statements:

H303 May be harmful if swallowed.
H320 Causes eye irritation.

Precautionary Statements:

P233 Keep container tightly closed.
P262 Do not get in eyes, on skin, or on clothing.
P263 Avoid contact during pregnancy and while nursing.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 If exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.

Section 3. Composition and Ingredient Information

Hazardous Ingredients:	%	C.A.S. #	OSHA PEL
Dipropylene glycol dimethyl ether	5-13	111109-77-41	None Established
Triethylamine	0.5-5	121-44-8	25 ppm

This product may contain Titanium Dioxide (TiO₂, CAS 13463-67-7) or Carbon Black (CAS# 1333-86-4) up to 6% based on colour. See section 8

Note: Concentration ranges are given to protect proprietary information.

Section 4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Cold titanium may be used. Get medical attention.
Skin Contact:	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Cold water may be used. Remove contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Clean shoes before reuse. Get medical attention if irritation persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion:	If ingested, consult a physician. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Extinguishing Media:	Water, Dry Chemical, CO ₂ or Foam.
Unusual Fire/Explosion Hazards:	None.
Fire Fighting Procedure:	No special fire-fighting procedures determined.
Sensitivity to Mechanical Impact:	Not available.
Sensitivity to Static Discharge:	Not applicable.
Special Fire Fighting Procedures:	Firefighter should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

Section 6. Accidental Release Measures

Leak/Spill:	Dike area to prevent spreading. Spills should be taken up with suitable absorbent and placed in containers. Spill area can be washed with water. Collect wash water for approved disposal. Utilize recommended protective clothing. Prevent entry to soil, sewers, waterways and groundwater.
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Section 7. Handling and Storage

Handling Procedures:	Avoid contact with eyes. Do not swallow. Wash hands thoroughly after direct contact with material. This product which is an aqueous dispersion of polymer, may be difficult to remove without injuring the skin if allowed to dry. Prevent skin and eye contact. Normal chemical handling precautions are advised.
Storage Requirements:	Protect from freezing. Store in tightly sealed container and protect from moisture and foreign materials. Keep container closed when not in use. For industrial and professional use only.

Section 8. Exposure Controls and Personal Protection.

Component	CAS#	ACGIH	OSHA	AIHA
Dipropylene glycol dimethyl ether	111109-77-4	No established	Exposure Limits	
Triethylamine	121-44-8	1 ppm (Skin)	25 ppm	
1,2 Propylene Glycol	57-55-6		TWA 8 hours 10 mg/m ³	
Carbon Black	1333-86-4	Threshold Limit	TWA 3 mg/m ³	
Titanium Dioxide	13463-67-7	Threshold Limit	TWA 10 mg/m ³	

Note: Accent colors may contain a small amount of Titanium Dioxide and/or Carbon Black. The exposure limits given above are for respirable dust of the two products. In the case of Titanium Dioxide and Carbon Black the powders are completely dispersed in liquid and there is no dust. In our opinion these two powder ingredients pose no threat to health in this PUD product.

Protective Equipment:

Eye/Type:	Liquid chemical goggles. Contact lenses should not be worn.
Respiratory/Type:	When concentration exceeds OEL, at least an air purifying respirator equipped with an organic vapour cartridge and particulate pre-filters must be worn when spraying. Use an approved/certified respirator or equivalent. Open containers in well-ventilated areas to avoid inhalation of volatile components.
Gloves/Type:	Rubber or plastic gloves. Butyl rubber gloves. Nitrile rubber. A barrier cream. Practice good hygiene. Wash thoroughly before handling any food.
Clothing/Type:	Wear adequate protective clothes, lab coat or apron. Remove contaminated gear and wash before wearing again. Wash separately from other laundry.
Footwear/Type:	Not applicable.

Other/Type: Eyewash fountain. Emergency shower should be in close proximity.

Ventilation Requirements: Adequate ventilation required.

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

NOTES:

(1) Unless otherwise indicated as “respirable” or “inhalable”, the exposure limit represents a “total” value. The inhalable exposure limit has been demonstrated to be more restrictive than the total exposure limit, by a factor of approximately 3.

(2) In its facilities globally, Cabot Corporation manages to the US ACGIH TLV of 3.0 mg/m³ TWA inhalable.

(3) As required under the EU Registration, Evaluation and Authorization of Chemicals (REACH) regulation, the Carbon Black REACH Consortium (of which Cabot Corporation is a member) developed a Derived No Effect Level (DNEL) for carbon black of 2 mg/m³ inhalable based on human health studies.

Section 9. Physical and Chemical Properties

Appearance:	Semi-Translucent Liquid (may be tinted).
Physical State:	Liquid.
Odor:	Slight.
Vapour Density:	>1.
Evaporation Rate:	<1.
Boiling Point:	175°C.
% Weight Volatile:	64.81.
VOC (lb./gallon):	0.45-1.29.
VOC (grams/Liter):	52.77-155.
Specific Gravity:	1.034.

Section 10. Stability and Reactivity

Stability:	This product is considered stable.
Hazardous Polymerization:	Will not occur with this product.
Materials to Avoid:	Oxidizing material.
Hazardous Composition:	Combustion may produce carbon dioxide and carbon monoxide.

Section 11. Toxicological Information

Acute Toxicity:	Oral	LD50	>10000 mg/kg	Rats
	Dermal	LD50	>5000 mg/kg	Rabbits
	Inhalation	LC50	Lower respiratory (pulmonary) irritant.	
		LC50	Value Range from 137-1150 MG/M3 were obtained in rats exposed to aerosols. (4H EXP.)	
Severe Irritant:	Capable of inducing corneal injury (Rabbit). Maximum primary eye irritant score: 54.6/110 for 24 hour Skin effects: Moderate and Dermal. Primary dermal irritation score: 3.4/8.0 (Rabbit).			
Sensitizing Capability of Material:	Pulmonary and dermal sensitizer in animals and humans.			
Teratogenicity:	Not available.			
Mutagenicity:	Not available.			
Reproductive Effects:	Not available.			
Synergistic Materials:	None known.			
Carcinogenicity of Material:	Carbon Black and Titanium Dioxide powders are classified as possibly carcinogenic in humans by IARC (Group 2B). This classification is based on inhalation of respirable dust. As discussed in Section 8, these powder ingredients are fully dispersed in liquid in this PUD product and there is no danger of inhaling any dust. In our opinion the possible human carcinogen ratings of Carbon Black and Titanium Dioxide are not applicable to this product.			

Section 12. Ecological Information

Although there have been no toxicity studies completed for this product, based on the materials used to manufacture this product, it is not believed to be a major ecological hazard.

Section 13. Disposal Considerations

Waste Disposal: In accordance with municipal, provincial and federal regulations. Empty containers must be handled with care to protect from residue.

Section 14. Transport Information

DOT: Not regulated material.

IMO/IMDG: Not regulated material.

Section 15. Regulatory Information

Massachusetts Substances
List (MSL): 121-44-8 Triethylamine 1-5 %.

OSHA Hazard Communication
Standard, 29 CFR 1910.1200: None.

State of California Sage Drinking
Water and Toxic Enforcement
Act of 1986 (Proposition 65): None.

Toxic Substance Control Act
(TSCA): All components of this product are listed or are exempt from listing on the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory; 40 CFR 723.250, Section V.

Superfund Amendments and
Reauthorization Act (SARA): This product contains the following chemicals that are subject to the reporting of SARA Title III, Section 313, 40CFR 372: 121-44-8 Triethylamine 1.0-5%.

Canadian DSL: All components are listed.

Section 16. Other Information

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