MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name **PTC Pro Tint**

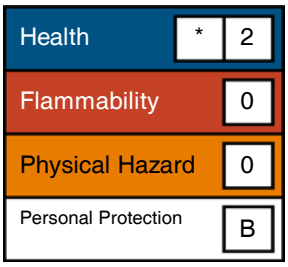
Synonym(s)
Lamp Black - EC450393, EC743931, EC74393C
Burnt Umber - EC450384, EC743841, EC74384C
Raw Umber - EC450383, EC743831, EC74383C
Burnt Sienna - EC450373, EC743721,EC74372C
Raw Sienna - EC450371, EC743711, EC74371C
Thalo Blue - EC450333, EC743331, EC74333C
Thalo Green - EC450323, EC743231, EC74323C
Light Green - EC450322, EC743211, EC74321C
Interior Orange - EC450308, EC743061, EC74306C
Interior Red - EC450305, EC743461, EC74346C
Medium Yellow - EC450303, EC743041, EC74304C
Light Yellow - EC450301, EC743021, EC74302C

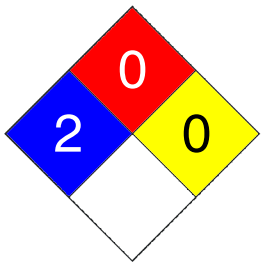
CAS # Mixture

Product Use Colourant for paint

Manufacturer
Dynamic Paint Products Inc.
7040 Financial Drive
Mississauga, ON L5N 7H5 CA
Phone: 1-905-812-9319
Emergency Phone: 1-613-996-6666 (CANUTEC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





2. Hazards Identification

Emergency Overview
CAUTION
EYE AND SKIN IRRITANT.
May cause chronic toxic effects.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Silica-crystalline, quartz *	14808-60-7	0.1 - 1
Ethanol *	64-17-5	0.1 - 1
Manganese oxide (MnO2) *	1313-13-9	0.5 - 1.5
Aluminum oxide *	1344-28-1	0.5 - 1.5
.Alpha.-(Dodecylphenyl)-.omega.-hydroxy-poly(oxy-1,2-ethanediyl) *	9014-92-0	0.5 - 1.5
Ethoxylated nonyl phenol *	9016-45-9	1 - 5
Carbon black *	1333-86-4	1 - 5
Iron oxide *	1309-37-1	10 - 30
Ethylene glycol	107-21-1	10 - 30
Hydrous magnesium silicate *	14807-96-6	15 - 40
Iron oxide *	1332-37-2	7 - 13
Ethanol, 2,2''-oxybis-	111-46-6	7 - 13

Composition comments * May contain this chemical

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing media Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from the chemical Not available

Protective equipment for firefighers Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact Not available

Sensitivity to static discharge Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapours or divert vapour cloud drift.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Avoid breathing vapours or mists of this product.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
.Alpha.-(Dodecylphenyl)-.omega.-hydroxy-poly(oxy-1,2-eth	**ACGIH-TLV** Not established
Aluminum oxide	**ACGIH-TLV** TWA: 10 mg/m3
Carbon black	**ACGIH-TLV** TWA: 3.5 mg/m3
Ethanol	**ACGIH-TLV** TWA: 1000 ppm
Ethanol, 2,2''-oxybis-	**ACGIH-TLV** Not established
Ethoxylated nonyl phenol	**ACGIH-TLV** Not established
Ethylene glycol	**ACGIH-TLV** Ceiling: 100 mg/m3
Hydrous magnesium silicate	**ACGIH-TLV** TWA: 2 mg/m3
Iron oxide	**ACGIH-TLV** Not established
Iron oxide	**ACGIH-TLV** TWA: 5 mg/m3
Manganese oxide (MnO2)	**ACGIH-TLV** TWA: 0.2 mg/m3
Silica-crystalline, quartz	**ACGIH-TLV** TWA: 0.1 mg/m3

Engineering controls	Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment

Eye/Face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Opaque.
Colour	characteristic
Form	Liquid
Odour	Odourless
Odour threshold	Not available
Physical state	Liquid
pH	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Flash point	Not available
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	3.7
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Insoluble
Auto-ignition temperature	Not available
Viscosity	slight
Percent volatile	24 - 42

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers. Reducing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
.Alpha.-(Dodecylphenyl)-.omega.-hydroxy-poly(oxy-1,2-eth	Not available
Aluminum oxide	Not available
Carbon black	Not available
Ethanol	31623 ppm rat
Ethanol, 2,2''-oxybis-	Not available
Ethoxylated nonyl phenol	Not available
Ethylene glycol	Not available
Hydrous magnesium silicate	Not available
Iron oxide	Not available
Iron oxide	Not available
Manganese oxide (MnO2)	Not available
Silica-crystalline, quartz	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
.Alpha.-(Dodecylphenyl)-.omega.-hydroxy-poly(oxy-1,2-eth	1930 mg/kg rat
Aluminum oxide	5000 mg/kg rat
Carbon black	8000 mg/kg rat
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Ethanol, 2,2''-oxybis-	1000 mg/kg human; 12565 mg/kg rat; 23700 mg/kg mouse; 9000 mg/kg dog; 3300 mg/kg cat
Ethoxylated nonyl phenol	2490 mg/kg rat
Ethylene glycol	7500 mg/kg mouse; 6.6 g/kg guinea pig; 5 g/kg rabbit; 4000 mg/kg rat
Hydrous magnesium silicate	Not available
Iron oxide	Not available
Iron oxide	5500 mg/kg rat
Manganese oxide (MnO2)	> 3478 mg/kg rat
Silica-crystalline, quartz	500 mg/kg rat

Effects of acute exposure

Eye May cause irritation.

Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Fibrosis was observed in rats exposed to 6 mg/m3 of hydrous magnesium silicate (talc) for 113 or 122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0 mg/m3 of airborne talc ore free of asbestos and silica. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. Early symptoms of silicosis include cough, mucous production and shortness of breath upon exertion. Significant lung effects have been observed in animals following exposure to airborne concentrations of Carbon Black of less than 100 mg/m3.

Carcinogenicity May contain potential carcinogens.

ACGIH - Threshold Limit Values - Carcinogens

Carbon black	1333-86-4	A4 - Not Classifiable as a Human Carcinogen
Ethanol	64-17-5	A4 - Not Classifiable as a Human Carcinogen
Ethylene glycol	107-21-1	A4 - Not Classifiable as a Human Carcinogen
Hydrous magnesium silicate	14807-96-6	A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers)
Iron oxide	1309-37-1	A4 - Not Classifiable as a Human Carcinogen
Silica-crystalline, quartz	14808-60-7	A2 - Suspected Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

Ethanol	64-17-5	Monograph 96 [2007] (in alcoholic beverages)
Silica-crystalline, quartz	14808-60-7	Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources)

IARC - Group 2B (Possibly Carcinogenic to Humans)

Carbon black	1333-86-4	Monograph 93 [in preparation], Monograph 65 [1996]

IARC - Group 3 (Not Classifiable)

Hydrous magnesium silicate	14807-96-6	Monograph 93 [in preparation] (inhaled), Supplement 7 [1987], Monograph 42 [1987]
Iron oxide	1309-37-1	Supplement 7 [1987], Monograph 1 [1972]

U.S. - California - Proposition 65 - Carcinogens List

Carbon black	1333-86-4	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)
Silica-crystalline, quartz	14808-60-7	carcinogen, initial date 10/1/88 (airborne particles of respirable size)

Mutagenicity Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice) exposed to high oral doses of ethanol.

Reproductive effects Contains a potential reproductive toxin.

Teratogenicity In rats and mice exposed to ethylene glycol, embryotoxic (late resorptions), fetotoxic (reduced fetal body weight) and teratogenic (external, soft tissue and skeletal defects) effects were observed at relatively high oral doses that caused no or minimal maternal toxicity.

Synergistic Materials Not available

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data

Ethylene glycol	107-21-1	96 Hr EC50 Selenastrum capricornutum: 6500 - 13000 mg/L

Ecotoxicity - Freshwater Fish Species Data

.Alpha.-(Dodecylphenyl)-.omega.-h	9014-92-0	96 Hr LC50 Oncorhynchus mykiss: 1.8 mg/L
Ethanol	64-17-5	96 Hr LC50 Oncorhynchus mykiss: 12.0-16.0 ml/L [static]; 96 Hr LC50 Pimephales promelas:>100 mg/L [static]; 96 Hr LC50 Pimephales promelas:13400-15100 mg/L [flow-through]
Ethanol, 2,2''-oxybis-	111-46-6	96 Hr LC50 Pimephales promelas: 75200 mg/L [flow-through]
Ethylene glycol	107-21-1	96 Hr LC50 Oncorhynchus mykiss: 41000 mg/L; 96 Hr LC50 Oncorhynchus mykiss:14-18 ml/L [static]; 96 Hr LC50 Lepomis macrochirus:27540 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss:40761 mg/L [static]; 96 Hr LC50 Pimephales promelas:40000-60000 mg/L [static]; 96 Hr LC50 Poecilia reticulata:16000 mg/L [static]
Hydrous magnesium silicate	14807-96-6	96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]

Ecotoxicity - Microtox Data

Ethanol	64-17-5	5 min EC50 Photobacterium phosphoreum: 35470 mg/L; 30 min EC50 Photobacterium phosphoreum: 34634 mg/L
Ethanol, 2,2''-oxybis-	111-46-6	15 min EC50 Photobacterium phosphoreum: 29228 mg/L
Ethylene glycol	107-21-1	30 min EC50 Photobacterium phosphoreum: 620.0 mg/L; 30 min EC50 Photobacterium phosphoreum: 620 mg/L; 16 Hr EC50 Pseudomonas putida: 10000 mg/L

Ecotoxicity - Water Flea Data

Carbon black	1333-86-4	24 Hr EC50 Daphnia magna: >5600 mg/L
Ethanol	64-17-5	48 Hr LC50 Daphnia magna: 9268 mg/L; 24 Hr EC50 Daphnia magna:10800 mg/L
Ethanol, 2,2''-oxybis-	111-46-6	96 Hr EC50 water flea: 0.3 mg/L [Static]; 48 Hr EC50 Daphnia magna: 84000 mg/L
Ethylene glycol	107-21-1	48 Hr EC50 water flea: 46300 mg/L

Environmental effects Not available

Aquatic toxicity Not available

Persistence and degradability Not available

Bioaccumulation/accumulation Not available

Partition coefficient Not available

Mobility in environmental media Not available

Chemical fate information Not available

Other adverse effects Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - CEPA - High Priority Chemicals as Identified by DSL Categorization

Carbon black	1333-86-4	Challenge Substance
Silica-crystalline, quartz	14808-60-7	Challenge Substance

Canada - WHMIS - Ingredient Disclosure List

.Alpha.-(Dodecylphenyl)-.omega.-h	9014-92-0	1 %
Aluminum oxide	1344-28-1	1 %
Carbon black	1333-86-4	1 %
Ethanol	64-17-5	0.1 %
Ethylene glycol	107-21-1	1 %
Iron oxide	1309-37-1	1 %
Silica-crystalline, quartz	14808-60-7	1 %

WHMIS classification Class D - Division 2A, 2B

WHMIS status Controlled

WHMIS labeling

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date	06-Aug-2009
Effective Date	15-Aug-2009
Expiry Date	15-Aug-2012
Prepared by	Dell Tech Laboratories Ltd. (519) 858-5021
Other Information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.