

MATERIAL SAFETY DATA SHEET



SECTION 1 - PRODUCT AND COMPANY INFORMATION

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)
(24 hours/day):

(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)
0532-83889090 (China)

TECHNICAL INFORMATION: (440) 572-2800 (GREENSBORO, NC) 8:00 a.m. - 5:00 p.m. EST
PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m. - 4:30 p.m. EST
Product ID: PCT90111M (0818)
PRODUCT NAME: ENVIROCRON
SYNONYMS: None
ISSUE DATE: 10/18/2007
EDITION NO.: 1
CHEMICAL FAMILY: POLYESTER

EMERGENCY OVERVIEW:

CAUSES SEVERE EYE IRRITATION. MAY CAUSE SLIGHT SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION. DUST GENERATED DURING APPLICATION OF POWDER COATINGS HARMFUL IF INHALED. MAY BE HARMFUL IF SWALLOWED. HIGH CONCENTRATIONS OF AIRBORNE DUST MAY IGNITE EXPLOSIVELY.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/ CAS Number	Percent	Hazardous	
BARIUM SULFATE 7727-43-7	10 - 30	X	
GLYCIDYL ISOCYANURATE 2451-62-9	1 - 5	X	
CARBON BLACK 1333-86-4	0.5-1.5	X	
QUARTZ 14808-60-7	0.1-1.0	X	
(As Silica, crystalline and Quartz) 14808-60-7	*	X	See Sections 8 and 15 for information.

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause slight skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur. Prolonged or repeated contact may cause an allergic skin reaction.

INHALATION:

Dusts generated during application of powder coatings harmful if inhaled.

INGESTION:

May be harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. This product contains crystalline silica which has been classified as a human carcinogen by IARC. Long-term exposures may also lead to a disabling lung condition known as silicosis. The risk depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Use of appropriate personal protective equipment and/or engineering controls should be employed whenever these types of operations are being performed. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: Not Applicable.

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: Not Available.

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use extinguishers appropriate for surrounding fire.

PROTECTION OF FIREFIGHTERS:

Water spray may be ineffective. Water spray may be used to cool closed containers that are exposed to extreme heat. If water is used, fog nozzles are preferable. Firefighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Dust can form explosive mixture in air. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Return material to container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Store in a cool, dry, well-ventilated place.

STORAGE:

For better shelf life, do not store above 80 degrees Fahrenheit (26 degrees C.). Store in cool dry place.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

ENGINEERING CONTROLS:

Overexposure to powder coatings dust may be prevented by ensuring ventilation controls, dust exhaust, or fresh air entry. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear sufficient eye protection to prevent contact with powdered materials.

SKIN/GLOVES:

Wear protective clothing including gloves selected to prevent skin irritation. Clean contaminated clothing and shoes.

RESPIRATOR:

Use an appropriate NIOSH-approved particulate filter respirator. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Overexposure to powder coatings dust may be prevented by ensuring ventilation controls, dust exhaust, or fresh air entry. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS

If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BARIUM SULFATE 7727-43-7	10 - 30	10 MG/m ³	Not established	R- 5 mg/m ³	Not established
GLYCIDYL ISOCYANURATE 2451-62-9	1 - 5	0.05 mg/m ³	Not established	Not established	Not established
CARBON BLACK 1333-86-4	0.5-1.5	3.5 mg/m ³	Not established	3.5 mg/m ³	Not established
QUARTZ 14808-60-7	0.1-1.0	R- 0.025 MG/m ³	Not established	R- 0.1 mg/m ³	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
BARIUM SULFATE 7727-43-7	10 - 30	10 MG/m ³	Not established	Not established	Not established
GLYCIDYL ISOCYANURATE 2451-62-9	1 - 5	0.05 MG/m ³	Not established	Not established	Not established
CARBON BLACK 1333-86-4	0.5-1.5	3.5 mg/m ³	Not established	Not established	Not established
QUARTZ 14808-60-7	0.1-1.0	0.10 MG/m ³	Not established	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit (1989 Vacated values); IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Absorption; R-Respirable Dust] **Additional Information** Not applicable.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES
(FORMULA VALUES, NOT SALES SPECIFICATIONS)**

SPECIFIC GRAVITY:	1.523
PHYSICAL STATE:	Powder
Percent Solids:	100.00
Percent Volatile by Volume:	.010
pH:	Not available.
ODOR THRESHOLD:	Not available.
Vapour Pressure:	N.A. mmHg
ODOR/APPEARANCE:	Not available.
VAPOR DENSITY:	NOT APPLICABLE
Evaporation Rate:	0
BOILING POINT OR RANGE:	Not available.
Freezing Point or Range:	Not Applicable.
Melting Point or Range(°C):	Not Applicable.
Partition coefficient (n- octanol/water):	Not Applicable.
WEIGHT PER GALLON:	12.69 (U.S.) / 15.2 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions.

CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

High concentrations of airborne dust may ignite explosively. All ignition sources should be eliminated when this product is dispersed in air. Avoid contact with strong alkalis, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Oxides of nitrogen - Oxides of sulfur - Oxides of barium - Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

Product ID: PCT90111M (0818)
PRODUCT NAME: ENVIROCRON

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
GLYCIDYL ISOCYANURATE 2451-62-9	1 - 5	.26 g/kg	Not Available	2.00 mg/l 4 hr
CARBON BLACK 1333-86-4	0.5-1.5	15.40 g/kg	3.00 g/kg	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Carcinogen - Lung - Mutagen - Kidney - Liver - Reproductive

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
GLYCIDYL ISOCYANU RATE 2451-62-9	1 - 5	Possible mutagenic hazard. Predictive laboratory tests with cultured media on an ingredient(s) contained in this product indicate potential damage to genetic material. Possible reproductive hazard. An ingredient(s) in this product has adversely affected reproductive tissues in laboratory animals.
CARBON BLACK 1333-86-4	0.5-1.5	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity: No Information Available.

ENVIRONMENTAL FATE

Mobility: No information available.

Biodegradation: No information available.

Bioaccumulation: No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: No information available.

Photolysis: No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: Paint, Powder - Non Regulated

NOS Technical Name: None

Hazard Class: None

Subsidiary Class(es): None

UN Number: None

Packing Group: None

USA - RQ Hazardous Substances: None

USA-RQ Hazardous Substance None

Threshold Ship Weight:

Marine Pollutant Name: None

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS - RQ (LBS)	SARA EHS- TPQ (LBS)	SARA 313
BARIUM SULFATE 7727-43-7	10 - 30	Not Listed	Not Listed	Not Listed
GLYCIDYL ISOCYANURATE 2451-62-9	1 - 5	Not Listed	Not Listed	Not Listed
CARBON BLACK 1333-86-4	0.5-1.5	Not Listed	Not Listed	Not Listed
QUARTZ 14808-60-7	0.1-1.0	Not Listed	Not Listed	Not Listed

SARA 311/312

Health (acute): Yes

Health (chronic): Yes

Fire (flammable): No

Pressure: No

Reactivity: No

WHMIS HAZARD CLASS: - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B - Class D, Division 1, Subdivision B

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Additional Information

Material/ CAS Number	Percent	IARC	IARC	IARC	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
		Group 1(Kno wn Human Carc.)	Group 2A (Proba ble Carc.)	2B (Suspec ted Carc.)			
CARBON BLACK 1333-86-4	0.5-1.5	N	N	Y	N	N	Y
QUARTZ 14808-60-7	0.1-1.0	Y	N	N	Y	N	Y

Key: IARC- International Agency on the Research of Cancer; ACGIH- American Conference of Governmental Industrial Hygienists; NTP- National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA- Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems

NFPA Rating: 2 10

HMIS Rating: 2*10

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

Product ID: PCT90111M (0818)
PRODUCT NAME: ENVIROCRON

The flammability rating printed above applies to this product during normal transportation and storage. However, theoretically, this product can form explosive mixtures at high concentrations of airborne dust. Per NFPA 704 (2001 Flammability criteria), such products would be assigned a "flammability" hazard rating of "3" if they are "readily dispersed in air."

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 9 has been updated.

Updated MSDS
format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

PCT90111M 000007 (00485068.001)(10/17/07)
071016, 000, 0818

*** END OF MSDS ***