MATERIAL SAFETY DATA SHEET
COATINGS AND RESINS GROUP
PPG Industries, Inc.

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE/IDENTITY: UC100515

PRODUCT TRADE NAME: POLYCRON III GREY

REVISION DATE: 08/18/04 (000) 0811

CUSTOMER PART #/NAME:

CHEMICAL FAMILY: Polyester Melamine

EMERGENCY MEDICAL/SPILL INFO: (412) 434-4515 (U.S.)
01-800-00-21-400 (MEXICO)

TECHNICAL INFORMATION: (724) 274-7900

PRODUCT SAFETY/MSDS INFORMATION: 4325 ROSANNA DRIVE
ALLISON PARK, PA 15101
(412) 492-5555

DATE OF MSDS PREPARATION: 08-18-04

PRIMARY HAZARD WARNING

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone. Harmful if swallowed. May cause slight skin irritation. Causes severe eye irritation. Prolonged or repeated contact may cause an allergic skin reaction. Vapor and/or spray mist may be harmful if inhaled.

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH 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.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

REF	HAZARDOUS INGREDIENTS	PERCENT	CAS NUMBER	CARCINOGEN*
01	ETHYL BENZENE	0.1- <1	100-41-4	I O
02	TOLUENE	1 - <5	108-88-3	
03	DIETHYLENE GLYCOL MONOBUTYL ETHER	1 - <5	112-34-5	
04	XYLENES	1 - <5	1330-20-7	
05	TITANIUM DIOXIDE	20- <30	13463-67-7	
06	EPOXY RESIN	1 - <5	25068-38-6	
07	AROMATIC HYDROCARBON	5 - <10	64742-94-5	
08	AROMATIC NAPHTHA	1 - <5	64742-95-6	
09	N-BUTYL ALCOHOL	1 - <5	71-36-3	
10	ISOBUTYL ALCOHOL	1 - <5	78-83-1	

* Carcinogens: O = OSHA; A = ACGIH; N = NTP; I = IARC

SARA TITLE III & CERCLA CLASSIFICATIONS

REF	CERCLA HAZARDOUS SUBSTANCE RQ(LBS)	SARA EXTREMELY HAZ SUBSTANCE TPQ(LBS)	SARA 313	SARA 311/312 AC CH FL PR RE
01	1000 lbs	NOT ESTAB	Y	Y Y Y N N
02	1000 lbs	NOT ESTAB	Y	Y N Y N N
03	NOT ESTAB	NOT ESTAB	N	Y Y N N N
03	NOT ESTAB	NOT ESTAB	Y	(GLYCOLETHR)
03	NOT ESTAB	NOT ESTAB	N	(ONTARIO)
04	100 lbs	NOT ESTAB	Y	Y N Y N N
05	NOT ESTAB	NOT ESTAB	N	N N N N N
05	NOT ESTAB	NOT ESTAB	N	(TI COMPDS)
05	NOT ESTAB	NOT ESTAB	N	(AS TI)
06	NOT ESTAB	NOT ESTAB	N	Y N N N N
07	NOT ESTAB	NOT ESTAB	N	Y N Y N N
07	NOT ESTAB	NOT ESTAB	N	(ONTARIO)
08	NOT ESTAB	NOT ESTAB	N	Y N Y N N
08	NOT ESTAB	NOT ESTAB	N	(ONTARIO)
09	5000 lbs	NOT ESTAB	Y	Y N Y N N
10	5000 lbs	NOT ESTAB	N	Y N Y N N

SARA 311/312 CATEGORIES FOR THIS PRODUCT: ACUTE = Y, CHRONIC = Y, FLAMMABILITY = Y, PRESSURE = N, REACTIVITY = N

OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED FOR THE FOLLOWING MATERIALS:

REF	ACGIH TLV-TWA	ACGIH TLV-STEL	U.S. OSHA PEL-TWA	U.S. OSHA PEL-STEL
01	100 ppm	125 ppm	100 ppm	125 ppm
02	50 ppm	NOT ESTAB	100 ppm	150 ppm
03	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB
03	IPEL-TWA: 35 ppm		IPEL-STEL: NOT ESTAB	
03	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB (GLYCOLETHR)
03	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB (ONTARIO)
04	100 ppm	150 ppm	100 ppm	150 ppm
05	10 mg/m3	NOT ESTAB	10 mg/m3	NOT ESTAB
05	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB (TI COMPDS)
05	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB (AS TI)
06	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB
07	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB
07	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB (ONTARIO)
08	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB
08	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB (ONTARIO)
09	50 ppm	NOT ESTAB	C-S-50 ppm	NOT ESTAB
10	50 ppm	NOT ESTAB	50 ppm	NOT ESTAB

[C- Ceiling Limit; S- Potential Skin Absorption; R- Respirable Dust]

REF ACGIH TLV - BASIS - CRITICAL EFFECT(S)

01	irritation; CNS
02	CNS
03	NOT ESTAB.
03	(GLYCOLETHR)...NOT ESTAB.
03	(ONTARIO) ...NOT ESTAB.
04	irritation
05	lung
05	(TI COMPDS) ...NOT ESTAB.
05	(AS TI) ...NOT ESTAB.
06	NOT ESTAB.
07	NOT ESTAB.
07	(ONTARIO) ...NOT ESTAB.
08	NOT ESTAB.
08	(ONTARIO) ...NOT ESTAB.
09	irritation; ototoxic; ocular
10	irritation; ocular

[ACGIH TLV BASIS - CRITICAL EFFECT(S): CNS-CENTRAL NERVOUS SYSTEM; CVS-CARDIOVASCULAR SYSTEM; CWP-COAL WORKER'S PNEUMOCONIOSIS; GI-GASTROINTESTINAL] [NOT ESTAB. = NOT ESTABLISHED = NOT APPLICABLE] [NOT ESTAB. = NOT ESTABLISHED = NOT APPLICABLE]

PRODUCT STATUS RELATIVE TO THE U.S. EPA TOXIC SUBSTANCES CONTROL ACT

All chemical substances in this product are listed on the U.S. TSCA Inventory or are otherwise exempt from TSCA Inventory reporting requirements.

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE FROM:

▸INGESTION: Harmful if swallowed.

▸EYE CONTACT: Causes severe eye irritation.

▸SKIN CONTACT: May cause slight skin irritation. Prolonged or repeated contact may cause an allergic skin reaction.

▸INHALATION: Vapor and/or spray mist may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage.

▸CHRONIC OVEREXPOSURE: Avoid long-term and repeated contact. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a potential cancer hazard, a skin sensitizer and a respiratory sensitizer. This product contains titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long-term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure. This product contains diethylene glycol monobutyl ether (DEGBE). DEGBE consumed in drinking water at low levels by rats for 30 days caused microscopic injury to either the liver, kidney, spleen, or testes. Further studies on the reproductive effects of DEGBE have not produced evidence of toxic effects in tissue culture or animal assays. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. Ethylbenzene has been reported by NTP to cause

cancer in laboratory animals following a chronic (2 year) inhalation exposure. Carcinogenicity was found in the kidneys of rats and the lung and liver of mice at the 750 ppm dose level. The No Observed Effect Level (NOEL) was 75 ppm. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eye watering, headaches, nausea, dizziness, and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 4 FIRST AID MEASURES

▸IMPORTANT FIRST AID INFORMATION: 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.

▸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.

▸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.

SECTION 5 FIRE FIGHTING MEASURES

▸**FLASHPOINT:** 75 Degrees F (24 Degrees C) (PENSKY-MARTENS CLOSED CUP)

▸FLAMMABLE LIMITS: Lower explosion limit (LEL): 1.5

▸Upper explosion limit (UEL): Not available

▸EXTINGUISHING MEDIA: Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires.

▸UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat.

▸SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

▸STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

▸WASTE DISPOSAL METHOD: Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 7 HANDLING AND STORAGE

▸HANDLING AND STORAGE PRECAUTIONS: Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

▸OTHER PRECAUTIONS: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT FOR:

▸EYE PROTECTION: Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

▸SKIN PROTECTION: Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: nitrile rubber or polyethylene. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment.

▸RESPIRATORY PROTECTION: Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. 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.

▸OTHER EQUIPMENT: Clean contaminated clothing and shoes.

VENTILATION REQUIREMENTS: 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

[FORMULA VALUES, NOT SALES SPECIFICATIONS]

BOILING RANGE: 149- 786Degrees F	SOLUBILITY IN WATER: 4.9 %
VAPOR PRESSURE: 10.4 mmHg	WEIGHT/GALLON (LBS): 10.90 (U.S.)
VAPOR DENSITY: Heavier than air	pH: Not determined
% VOLATILE/VOLUME: 39.080	% SOLIDS BY WEIGHT: 73.95
SPECIFIC GRAVITY: 1.308	EVAPORATION RATE(BuOAc = 100): 55

ODOR/APPEARANCE: Viscous liquid with an odor characteristic of the solvents listed in Section 2.

SECTION 10 STABILITY AND REACTIVITY

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

▸INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID): Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

▸HAZARDOUS DECOMPOSITION PRODUCTS: May produce the following hazardous decomposition products when exposed to extreme heat: carbon monoxide ; carbon dioxide ; oxides of nitrogen ; formaldehyde ; lower molecular weight polymer fractions; Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) Ratings:

HMIS Rating		NFPA Rating	
HEALTH	2*	HEALTH	2
FLAMMABILITY	3	FLAMMABILITY	3
REACTIVITY	0	INSTABILITY	0

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

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

TRANSPORTATION OF DANGEROUS GOODS

PROPER SHIPPING NAME: NOT AVAILABLE
NOS TECHNICAL NAME: NOT AVAILABLE
HAZARD CLASS: N.A.
SUBSIDIARY CLASS: N.A.
UN NUMBER: N.A.
PACKING GROUP: N.A.
MARINE POLLUTANT: NOT AVAILABLE
USA-RQ, HAZARDOUS SUBSTANCE: NOT AVAILABLE
USA-RQ, HAZARDOUS SUBSTANCE THRESHOLD SHIP WEIGHT: NOT AVAILABLE
USA and Canada Shipments Only- Combustible Liquid Exception: Non-bulk (< = 119 Gallons/450 L) ground shipments can be reclassified to "not regulated" for transportation. Bulk shipments - USA Only (> 119 Gallons/450 L) can be reclassified to a Combustible Liquid.

THIS IS THE END OF THE MSDS FOR: UC100515 (00299842.001UC100515X 08/18/04)

Manufactured and Supplied by:
PPG INDUSTRIES, SPRINGDALE
125 COLFAX STREET SPRINGDALE, PA 15144