

MATERIAL SAFETY DATA SHEET

COATINGS AND RESINS GROUP

PPG Industries, Inc.

SECTION 1 - CHEMICAL, PRODUCT, AND COMPANY INFORMATION

PRODUCT CODE/IDENTITY: 16-902

REVISION DATE: 03/11/97 (000) 0814

CUSTOMER PART #/NAME: Not applicable

PRODUCT TRADE NAME: W/B PITT GLAZE EPOXY MID B

CHEMICAL FAMILY: Epoxy

EMERGENCY MEDICAL/SPILL INFO: (304) 843-1300 (U.S.) 91-800-00-214 (MEXICO)

TECHNICAL INFORMATION: (404) 761-7771

PRODUCT SAFETY/MSDS INFORMATION: 4325 ROSANNA DRIVE, P.O. BOX 9 ALLISON PARK, PA 15101 (412) 492-5555

DATE OF MSDS PREPARATION: 05/08/97

PRIMARY HAZARD WARNING

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. Sanding and grinding dusts 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	ETHYLENE GLYCOL MONOPHENYL ETHER	1 - <5	122-99-6	
02	TITANIUM DIOXIDE	5 - <10	13463-67-7	
03	QUARTZ	10- <20	14808-60-7	I N
04	EPOXY RESIN	30- <40	25068-38-6	
05	NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL	1 - <5	9016-45-9	

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

SARA TITLE III & CERCLA CLASSIFICATIONS

REF	SARA 102 RQ (LBS)	SARA 302 TPQ (LBS)	SARA 313	SARA 311/312				
				AC	CH	FL	PR	RE
01	1	NOT ESTAB	Y	Y	N	N	N	N
02	NOT ESTAB	NOT ESTAB	N	N	N	N	N	N

03	NOT ESTAB	NOT ESTAB	N	N	Y	N	N	N
04	NOT ESTAB	NOT ESTAB	N	Y	N	N	N	N
05	NOT ESTAB	NOT ESTAB	N	Y	N	N	N	N

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

OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED FOR THE FOLLOWING MATERIALS:

REF	ACGIH		U.S. OSHA	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL
01	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.
02	10 mg/m3	NOT ESTAB.	10 mg/m3	NOT ESTAB.
03	R- 0.1 mg/m3	NOT ESTAB.	R- 0.1 mg/m3	NOT ESTAB.
04	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.
05	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.

[C- Ceiling Limit; S- Potential Skin Absorption; R- Respirable Dust] [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. Sanding and grinding dusts may be harmful if inhaled.

CHRONIC OVEREXPOSURE: Avoid long-term and repeated contact. This product contains a form of crystalline silica/quartz which IARC associates with an increased risk of cancer in laboratory animals. Long-term exposures to crystalline silica/quartz may also lead to a disabling injury known as silicosis. These effects are associated with breathing excessive amounts of silica dust. Application of this product is not expected to generate excessive amounts of respirable silica/quartz. This product contains an ethylene series glycol ether and/or acetate which has been shown to cause adverse effects on the kidneys, liver, blood and/or blood-forming tissue. 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. Potential for inhalation of titanium dioxide dusts from coatings is very limited. Since overexposures are not expected, there is no significant hazard for man. Prolonged skin contact of an ingredient in this product caused inflammatory changes in the lungs of laboratory animals. No evidence of this effect has been found in humans.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

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

SECTION 4 - FIRST AID MEASURES

INGESTION: If swallowed, do not induce vomiting. Gently wipe out inside mouth to remove any residual material.

EYE CONTACT: In case of eye contact, remove contact lenses and flush eyes immediately with a gentle stream of luke warm water for at least 15 minutes.

SKIN CONTACT: In case of skin contact, flush immediately with plenty of water for at least 15 minutes followed by washing with soap and water.

INHALATION: If affected by inhalation of vapor or spray mist, remove to fresh air. Apply artificial respiration and other support measures as required.

OTHER: If ingestion, any type of overexposure or symptoms of overexposure occur during or following the use of this product, contact a poison control center, emergency room or physician immediately; have Material Safety Data Sheet information available.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT: 200 Degrees F (92 Degrees C) (PENSKEY-MARTENS CLOSED CUP)

FLAMMABLE LIMITS: Lower explosion limit (LEL): Not available

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 IIIB combustible liquid fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode or burst (due to the build-up of steam pressure) when exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES: 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.

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: Protect from freezing.

OTHER PRECAUTIONS: 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.

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: neoprene rubber, nitrile rubber, or latex. 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: Where ventilation is inadequate, use a NIOSH- approved air purifying respirator with the appropriate chemical cartridges or positive-pressure, air-supplied 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.

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: 212- 565Degrees F

SOLUBILITY IN WATER: 41.0 %

VAPOR PRESSURE: 17.1 mmHg

WEIGHT/GALLON (LBS): 10.40 (LBS/U.S. GAL.)

VAPOR DENSITY: Heavier than air

pH: Not applicable

% VOLATILE/VOLUME: 49.470

% SOLIDS BY WEIGHT: 59.92

SPECIFIC GRAVITY: 1.248

EVAPORATION RATE(BuOAc=100): 32

ODOR/APPEARANCE: Viscous liquid with an odor characteristic of the chemical family and any 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 alkalis, 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 ; lower molecular weight polymer fractions; Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

PPG Safety and Health In-Plant Index System (SHIS):

HEALTH= 3*, FLAMMABILITY= 1, REACTIVITY= 0

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

SHIS ratings are assigned to identify the relative magnitude of potential hazards. Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments.

THIS IS THE END OF THE MSDS FOR: 16-902 (00070119.00116-902)

Manufactured and Supplied by:

PPG INDUSTRIES, EAST POINT

1377 OAKLEIGH DRIVE

EAST POINT, GA 30304

«]