

MATERIAL SAFETY DATA SHEET

COATINGS AND RESINS GROUP

PPG Industries, Inc.

SECTION 1 - CHEMICAL, PRODUCT, AND COMPANY INFORMATION

PRODUCT CODE/IDENTITY: 6-14

REVISION DATE: 02/27/98 (000) 0814

CUSTOMER PART #/NAME: Not applicable

PRODUCT TRADE NAME: STAIN KILL PRIMER WHITE

CHEMICAL FAMILY: Alkyd

WHMIS HAZARD CLASS:

Class B, Division 6 Class D, Division 2, Subdivision A

EMERGENCY MEDICAL/SPILL INFO: (514) 645-1320 91-800-00-214 (MEXICO)

TECHNICAL INFORMATION: 1-800-441-9695

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

DATE OF MSDS PREPARATION: 03/22/98

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. May be harmful if swallowed. May cause slight skin irritation. Causes eye irritation. Vapor and/or spray mist may be harmful if inhaled.

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM.

SECTION 2 - HAZARDOUS INGREDIENTS

REF	HAZARDOUS INGREDIENTS	PERCENT	CAS NUMBER	CARCINOGEN*
01	TITANIUM DIOXIDE	5 - 10	13463-67-7	
02	TALC	10 - 30	14807-96-6	
03	METHYL ETHYL KETOXIME	0.1-1.0	96-29-7	
04	NAPHTHA	10 - 30	8052-41-3	
05	V.M. AND P. NAPHTHA	3 - 7	8032-32-4	
06	PETROLEUM DISTILLATES	5 - 10	64741-65-7	
07	CALCIUM CARBONATE	15 - 40	1317-65-3	
08	QUARTZ	0.1-1.0	14808-60-7	I N O

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

OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED FOR THE FOLLOWING MATERIALS:

REF	ACGIH		ONTARIO	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL
01	10 mg/m3	NOT ESTAB.	10 mg/m3	NOT ESTAB.

02	R-	2 mg/m3	NOT ESTAB.	R-	2 mg/m3	NOT ESTAB.
03		NOT ESTAB.	NOT ESTAB.		NOT ESTAB.	NOT ESTAB.
03		IPEL-TWA: 3 PPM			IPEL-STEL: 10 PPM	
04		100 ppm	NOT ESTAB.		525 mg/m3	NOT ESTAB.
05		300 ppm	NOT ESTAB.		NOT ESTAB.	NOT ESTAB.
06		NOT ESTAB.	NOT ESTAB.		NOT ESTAB.	NOT ESTAB.
07		10 mg/m3	NOT ESTAB.		10 mg/m3	NOT ESTAB.
08	R-	0.1 mg/m3	NOT ESTAB.		NOT ESTAB.	NOT ESTAB.

[C- Ceiling Limit; S- Potential Skin Absorption; R- Respirable Dust] [NOT ESTAB. = NOT ESTABLISHED = NOT APPLICABLE]

Consult local authorities for acceptable provincial values.

SECTION 3 - TOXICOLOGICAL PROPERTIES

REF	LD50 ORAL (rat)	LD50 DERMAL (rabbit)	LC50 INHALATION (rat)
01	Not available	Not available	Not available
02	Not available	Not available	Not available
03	1.69 g/kg	Not available	Not available
04	Not available	Not available	Not available
05	Not available	Not available	Not available
06	Not available	Not available	Not available
07	Not available	Not available	Not available
08	Not available	Not available	Not available

THE FOLLOWING INFORMATION IS REQUIRED UNDER CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

REF	ACUTE TOXICITY
01	NO SEVERE HAZARDS
02	NO SEVERE HAZARDS
03	SKIN SENSITIZER/EYE CORROSIVE
04	NO SEVERE HAZARDS
05	NO SEVERE HAZARDS
06	NO SEVERE HAZARDS
07	NO SEVERE HAZARDS
08	NO SEVERE HAZARDS

REF	CHRONIC TOXICITY
01	CARCINOGEN/LUNG
02	CARCINOGEN/LUNG
03	BLOOD/CARCINOGEN/CATARACT EFFECTS/KIDNEY/LIVER/LUNG/SPLEEN
04	NO LONG-TERM EFFECTS IDENTIFIED
05	NO LONG-TERM EFFECTS IDENTIFIED
06	NO LONG-TERM EFFECTS IDENTIFIED
07	NO LONG-TERM EFFECTS IDENTIFIED
08	CARCINOGEN/LUNG

HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE FROM:

INGESTION: May be harmful if swallowed.

EYE CONTACT: Causes eye irritation.

SKIN CONTACT: May cause slight skin irritation.

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 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. 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. This product contains methyl ethyl ketoxime (MEKO). Studies in animals indicate that overexposure can cause adverse effects in spleen and kidney, anemia, liver cancer and cataracts. This product contains talc. In a lifetime inhalation study female rats exposed to an elevated respirable concentration (9 times the Permissible Exposure Limit) of cosmetic grade talc developed lung cancer. To date, no U.S. regulatory agency has classified talc as a carcinogen based on this data.

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.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: Not available

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 OR EXPLOSION DATA

FLASHPOINT: 73 Degrees F (23 Degrees C) (PENSKEY-MARTENS CLOSED CUP)

FLAMMABLE LIMITS: Lower explosion limit (LEL): .9

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: When this product is used, the overspray and

other combustible materials such as paint booth filters, rags, masking materials, etc., contaminated by coating material are subject to spontaneous combustion. Wetting the contaminated materials and not packing them tightly together in refuse containers will minimize the potential for this to occur. 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.

AUTOIGNITION TEMPERATURE: Not available

SECTION 6 - PREVENTIVE MEASURES

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.

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.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT FOR:

EYE PROTECTION: Wear safety glasses.

SKIN PROTECTION: Wear protective clothing. Gloves should be constructed of: neoprene rubber or nitrile rubber. 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 7 - PHYSICAL AND CHEMICAL PROPERTIES

[FORMULA VALUES, NOT SALES SPECIFICATIONS]

BOILING RANGE: 230 - 468Degrees F

SOLUBILITY IN WATER: .2 %

VAPOR PRESSURE: 7.1 mmHg

WEIGHT/GALLON (LBS): 14.5 (IMPERIAL)

VAPOR DENSITY: Heavier than air

pH: Not applicable

% VOLATILE/VOLUME: 54.220

% SOLIDS BY WEIGHT: 71.03

SPECIFIC GRAVITY: 1.451

EVAPORATION RATE(BuOAc=100): 42

PHYSICAL STATE: LIQUID

FREEZING POINT: Not available

ODOR THRESHHOLD: Not available

COEFFICIENT OF OIL/WATER DISTRIBUTION: Not available

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

SECTION 8 - STABILITY AND REACTIVITY DATA

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 ; lower molecular weight polymer fractions; Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 9 - PREPARATION INFORMATION PREPARED BY: Product Safety Department PHONE NUMBER: (412)492-5555 DATE OF MSDS PREPARATION: 03/22/98

Hazardous Materials Identification System (HMIS) and National Fire Protection

Association (NFPA) Ratings:

HMIS Rating		NFPA Rating	
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HEALTH	1*	HEALTH	1
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.

THIS IS THE END OF THE MSDS FOR: 6-14 (00109549.0016-14)

Manufactured and Supplied by:

ARCHITECTURAL FINISHES, INC.

ONE PPG PLACE

PITTSBURGH, PA 15272

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