

MAY 24 1993

MATERIAL SAFETY DATA SHEET
COATINGS AND RESINS GROUP

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PAI00046

SECTION I - PRODUCT INFORMATION

MANUFACTURER'S NAME: PPG INDUSTRIES, INC.
PRODUCT CODE/IDENTITY: AL121D370 (081489D)
CUSTOMER PART#/NAME:
PRODUCT TRADE NAME: TAN LACQUER
CHEMICAL FAMILY: ACRYLIC

SHIPPING INFORMATION

US-DOT: SHIPPING NAME/HAZARD CLASS: PAINT, FLAMMABLE LIQUID
UN NUMBER: UN1263

PPG SAFETY AND HEALTH INDEX IN-PLANT HAZARD RATINGS

HEALTH= 3*
FLAMMABILITY= 3
REACTIVITY= 0

0=MINIMAL 1=SLIGHT 2=MODERATE 3=SERIOUS 4=SEVERE

*=CONTAINS INGREDIENT(S) WHICH MAY CAUSE CHRONIC (LONG-TERM) HEALTH EFFECTS

EMERGENCY MEDICAL/SPILL INFO: (304) 843-1300

TECHNICAL INFO: AUTO REFINISH: (216) 572-6111
PITTSBURGH PAINTS: (800) 441-9695

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

DATE OF MSDS PREPARATION: 5/13/93

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. ABBREVIATIONS AND OTHER DESIGNATIONS USED ON THIS MATERIAL SAFETY DATA SHEETS INCLUDE THE FOLLOWING:

U/I = UNKNOWN INFORMATION; N/A = NOT APPLICABLE;
NOT ESTAB. = NOT ESTABLISHED; CERT. LTR. = CHEMICAL
O.K. ON TSCA INVENTORY; CAS NO. NOT AVAILABLE

(CUSTOMER NO.) LOCATION : 93AL121D370//513

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SECTION II - INGREDIENTS AND REGULATORY INFORMATION

| INGREDIENTS | CAS NUMBER | % WEIGHT | ...SARA TITLE III & CERCLA CLASSIFICATIONS... | | | | | | | | | | |
|---|------------|----------|---|-----------|-----------|----------|-----------|--------------|----|----|----|----|----|
| | | | HS (102) | EHS (302) | TC+ (313) | RQ (LBS) | TPQ (LBS) | SARA 311/312 | | | | | |
| | | | | | | | | | AC | CH | FL | PR | RE |
| BUTYL BENZYL PHTHALATE | 85-68-7 | 2- 5 | Y | N | Y | 100 | N/A | N | Y | N | N | N | N |
| TITANIUM DIOXIDE # | 13463-67-7 | 5-10 | N | N | N | N/A | N/A | N | Y | N | N | N | N |
| MAGNESIUM SILICATE | 14807-96-6 | 1- 2 | N | N | N | N/A | N/A | N | N | N | N | N | N |
| TOLUENE | 108-88-3 | 45-50 | Y | N | Y | 1000 | N/A | Y | N | Y | N | N | N |
| METHYL ETHYL KETONE | 78-93-3 | 5-10 | Y | N | Y | 5000 | N/A | Y | N | Y | N | N | N |
| PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE | 108-65-6 | 2- 5 | N | N | N | N/A | N/A | Y | N | Y | N | N | N |
| ETHYLENE GLYCOL MONOBUTYL ETHER | 111-76-2 | 1- 2 | N | N | Y | 1 | N/A | Y | Y | Y | N | N | N |
| XYLENE | 1330-20-7 | 1- 2 | Y | N | Y | 1000 | N/A | Y | N | Y | N | N | N |
| ACETONE | 67-64-1 | 1- 2 | Y | N | Y | 5000 | N/A | Y | N | Y | N | N | N |
| FILM FORMERS, RESINS, AND ADDITIVES | NOT ESTAB. | 20-25 | N | N | N | N/A | N/A | Y | N | N | N | N | N |

*** THE FOLLOWING HAZARDOUS MATERIALS ARE COMPONENTS OF ONE OR MORE OF THE ABOVE INGREDIENTS ***
 ACRYLIC ESTER MONOMERS NOT ESTAB. 1- 2 N N N N/A N/A Y N N N N

*** THE FOLLOWING INGREDIENTS ARE REPORTABLE AS SARA SECTION 313 CHEMICAL CATEGORIES ***
 GLYCOL ETHERS NOT ESTAB. 1- 2

*** OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED FOR THE FOLLOWING MATERIALS ***

| INGREDIENTS |ACGIH..... | |OSHA..... | |PPG-IPEL..... | |
|---------------------------------|----------------------|-----------|----------------------|-----------|----------------------|-----------|
| | TLV-TWA | TLV-STEL | PEL-TWA | PEL-STEL | IPEL-TWA | IPEL-STEL |
| TITANIUM DIOXIDE # | 10 mg/m ³ | NOT ESTAB | 10 mg/m ³ | NOT ESTAB | 10 mg/m ³ | NOT ESTAB |
| MAGNESIUM SILICATE | NOT ESTAB | NOT ESTAB | 2 mg/m ³ | NOT ESTAB | 2 mg/m ³ | NOT ESTAB |
| TOLUENE | 50 ppm - S | NOT ESTAB | 100 ppm | 150 ppm | 50 ppm - S | NOT ESTAB |
| METHYL ETHYL KETONE | 200 ppm | 300 ppm | 200 ppm | 300 ppm | 200 ppm | 250 ppm |
| ETHYLENE GLYCOL MONOBUTYL ETHER | 25 ppm-S | NOT ESTAB | 25 ppm-S | NOT ESTAB | 25 ppm-S | NOT ESTAB |
| XYLENE | 100 ppm | 150 ppm | 100 ppm | 150 ppm | 100 ppm | 150 ppm |
| ACETONE | 750 ppm | 1,000ppm | 750 ppm | 1,000ppm | 750 ppm | 1,000ppm |

*** SARA 311/312 CATEGORIES FOR THIS PRODUCT ***
 ACUTE=Y CHRONIC=Y FLAM=Y PRESS=N REAC=N

*** PRODUCT STATUS RELATIVE TO THE US EPA TOXIC SUBSTANCES CONTROL ACT ***
 ALL CHEMICAL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

*** FOOTNOTES FOR SECTION II ***

CARCINOGENIC ACCORDING TO CRITERIA ESTABLISHED BY: *NTP **IARC @OSHA #OTHER
 + INGREDIENTS IN THE TC COLUMN ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III. SEE 40 CFR PART 372.
 C-DESIGNATES CEILING LIMIT; S-ABSORBED THROUGH INTACT SKIN; RD-VALUE IS FOR RESPIRABLE DUST
 %NV = PERCENT NON-VOLATILE

CONTINUED ON PAGE 3

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

[FORMULA VALUES, NOT SALES SPECIFICATIONS]

BOILING RANGE: 56 - 171 DEG. C SOLUBILITY IN WATER: 5.3%
 VAPOR PRESSURE: 32.8mmHg WT/GAL (LBS): 8.65 (U.S.)
 VAPOR DENSITY: HEAVIER THAN AIR pH: U/I
 % VOL/VOLUME: 72.00 % SOLID BY WEIGHT: 40.23
 EVAP RATE(BuOAc=100): 287 SPECIFIC GRAVITY: 1.04
 ODOR/APPEARANCE: VISCOUS LIQUID WITH AN ODOR CHARACTERISTIC OF THE
 SOLVENTS LISTED IN SECTION II.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

US-DOT CATEGORY: FLAMMABLE

FLASHPOINT: 27 DEG. F PMCC (-2.75 DEG. C) FLAMMABLE LIMITS: LEL 1.5 UEL U/I

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 IB FLAMMABLE LIQUID FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS, AND OPEN FLAMES. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY ON HOT SURFACES. TOXIC GASES MAY FORM WHEN PRODUCT IS CONTACTED BY FLAME OR HOT SURFACES.

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.

SECTION V - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: NOT EXPECTED TO OCCUR

INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):

AVOID CONTACT WITH STRONG ALKALIES, STRONG MINERAL ACIDS, OR STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS WHEN HEATED. WELDING, BRAZING, OR FLAME-CUTTING MAY PRODUCE FUMES INCLUDING:
 Carbon Monoxide,

SECTION VI - SPILL OR LEAK PROCEDURESSTEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

PROVIDE MAXIMUM VENTILATION. ONLY PERSONNEL EQUIPPED WITH PROPER RESPIRATORY AND SKIN AND EYE PROTECTION SHOULD BE PERMITTED IN THE AREA. REMOVE ALL SOURCES OF IGNITION. TAKE UP SPILLED MATERIAL WITH SAWDUST, VERMICULITE, OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR DISPOSAL.

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 VII - HEALTH HAZARD DATAEFFECTS OF OVEREXPOSURE FROM:

INGESTION:

-HARMFUL OR FATAL IF SWALLOWED.

EYE CONTACT:

-CAUSES SEVERE EYE IRRITATION.

SKIN CONTACT:

-CAUSES PRIMARY SKIN IRRITATION.

-MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.

-PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION.

INHALATION:

-VAPOR AND SPRAY MIST HARMFUL IF INHALED.

-VAPOR IRRITATES EYES, NOSE, AND THROAT.

-REPEATED EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION OF THE RESPIRATORY SYSTEM AND PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

-INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.

CHRONIC OVEREXPOSURE:

AVOID LONG TERM AND REPEATED CONTACT.

-THIS PRODUCT CONTAINS BUTYL BENZYL PHTHALATE (BBP). BBP HAS CAUSED TESTICULAR ATROPHY IN LABORATORY ANIMALS. NO EVIDENCE OF THIS EFFECT HAS BEEN FOUND IN HUMANS.

-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

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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 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. THERE IS NO CONCLUSIVE EVIDENCE OF THESE EFFECTS IN HUMANS.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

-EYE WATERING, HEADACHES, NAUSEA, DIZZINESS, AND LOSS OF COORDINATION ARE INDICATIONS THAT SOLVENT LEVELS ARE TOO HIGH.

-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

SECTION VIII - FIRST AID PROCEDURES**INGESTION:**

IF SWALLOWED, DO NOT INDUCE VOMITING.

EYE CONTACT:

IN CASE OF EYE CONTACT, FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

SKIN CONTACT:

IN CASE OF SKIN CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER, FOLLOWED BY WATERLESS HAND CLEANER AND SOAP AND WATER IF THE MATERIAL APPEARS TO ADHERE TO SKIN.

INHALATION:

IF AFFECTED BY INHALATION OF VAPOR OR SPRAY MIST, REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION AND OTHER SUPPORTIVE 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 IX - PROTECTION INFORMATION**PERSONAL PROTECTIVE EQUIPMENT FOR:****EYE PROTECTION:**

WEAR CHEMICAL-TYPE SPLASH GOGGLES OR FULL FACE SHIELD WHEN POSSIBILITY EXISTS FOR EYE CONTACT DUE TO SPLASHING OR SPRAYING LIQUID, AIRBORNE PARTICLES, OR VAPORS.

SKIN PROTECTION:

WEAR PROTECTIVE CLOTHING, INCLUDING IMPERMEABLE APRON AND GLOVES CONSTRUCTED OF: NITRILE RUBBER OR NEOPRENE RUBBER

RESPIRATORY PROTECTION:

OVEREXPOSURE TO VAPORS MAY BE PREVENTED BY ENSURING VENTILATION CONTROLS, VAPOR EXHAUST OR FRESH AIR ENTRY. NIOSH/MSHA-APPROVED (TC-23C-) AIR PURIFYING OR AIR SUPPLIED (TC-19C-) RESPIRATORS MAY ALSO REDUCE EXPOSURE. READ RESPIRATOR MANUFACTURER'S INSTRUCTIONS AND LITERATURE CAREFULLY TO DETERMINE THE TYPE OF AIRBORNE CONTAMINANTS AGAINST WHICH THE RESPIRATOR IS EFFECTIVE AND HOW IT IS TO BE PROPERLY FITTED.

OTHER EQUIPMENT:

CLEAN OR DISCARD 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 II BELOW THE LOWEST SUGGESTED EXPOSURE LIMITS, THE LEL IN SECTION IV BELOW THE STATED LIMIT, AND TO REMOVE DECOMPOSITION PRODUCTS DURING WELDING OR FLAME CUTTING.

SECTION X - SPECIAL PRECAUTIONS**HANDLING AND STORAGE PRECAUTIONS:**

DO NOT STORE ABOVE 120 DEGREES F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS IB FLAMMABLE LIQUIDS.

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. CONTAINERS SHOULD BE GROUNDED WHEN POURING. AVOID FREE FALL OF LIQUIDS IN EXCESS OF A FEW INCHES.