



FASTENING SYSTEMS DESIGN AND ENGINEERING CENTER

MATERIAL SAFETY DATA SHEET
 Report No.: MSDS082305, Rev.080210

Date: December 10, 2010

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)
 0532-3889090 (China)

TECHNICAL INFORMATION: (724) 274-7900 (SPRINGDALE, PA) 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:
PRODUCT NAME: DURANAR ADS
SYNONYMS: None
ISSUE DATE: 09/29/2004
EDITION NO.: 1
CHEMICAL FAMILY: Acrylic Fluoropolymer

EMERGENCY OVERVIEW:
 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. CAUSES EYE IRRITATION, MAY CAUSE SLIGHT SKIN IRRITATION. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT. HARMFUL IF SWALLOWED.

INHALATION:
 Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.
INGESTION:
 Harmful if swallowed.
SIGNS & SYMPTOMS OF OVEREXPOSURE:
 Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. 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. 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.
 Repeated exposure to vapors above recommended exposure limits (see Section 8) 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. 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. 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 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
1-METHOXY-2-PROPYL ACETATE 108-65-6	10 - 30	X
TOLUENE 108-88-2	10 - 30	X
ETHYL ACETATE 141-73-6	10 - 30	X
TITANIUM DIOXIDE 13463-97-7	7 - 13	X
ETHYL ALCOHOL 64-17-5	1 - 5	X
2-METHOXY-1-PROPYL ACETATE 70657-70-4	0.1-1.0	X

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:
 Causes 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:

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. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASHPOINT: 35 Degrees F (2 Degrees C)
FLASHPOINT TEST METHOD:
 Pensky Martens Closed Cup
UEL: Not Available.
LEL: 1.9
AUTOIGNITION TEMPERATURE:
 Not Available.

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FASTENING SYSTEMS DESIGN AND ENGINEERING CENTER

PPG Industries, Inc.
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Pittsburgh, PA 15272

Product ID: UC60400 (0811)
PRODUCT NAME: DURANAR ADS WHITE "EZ" BA

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. 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.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

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. 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:

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 absorbent should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

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.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

ENGINEERING CONTROLS:

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

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of butyl 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. Clean contaminated clothing and shoes.

RESPIRATOR:

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. 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.

Table with 6 columns: Material/CAS Number, Percent, ACGIH TLV, ACGIH STEL, OSHA PEL, OSHA STEL. Rows include Toluene, Ethyl Acetate, Titanium Dioxide, and Ethyl Alcohol.

Key: OSHA=Occupational Safety and Health Administration; PEL=Permissible Exposure Limit; Ceiling=PEL Ceiling Limit; STEL=PEL Short-Term Exposure Limit; Skin=OSHA Skin Designation.

Table with 6 columns: Material/CAS Number, Percent, Ontario TWA, Ontario STEL, PPG IPEL, PPG STEL. Rows include 1-Methoxy-2-Propyl Acetate, Toluene, Ethyl Acetate, Titanium Dioxide, and Ethyl Alcohol.

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; 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)

Table with 2 columns: Property Name, Value. Rows include Specific Gravity, Physical State, Percent Solids, Percent Volatile by Volume, pH, Odor Threshold, and Vapour Pressure (mm Hg).

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Product ID: UC60400 (0811)
 PRODUCT NAME: DURANAR ADS WHITE "EZ" BA

ODOR/APPEARANCE: Viscous liquid with an odor characteristic of the solvents listed in Section 2.
VAPOR DENSITY: HEAVIER THAN AIR
Evaporation Rate: 250
BOILING POINT OR RANGE: 149 - 302 Degrees F
Freezing Point or Range: Not Applicable.
Melting Point or Range: Not Applicable.
Octanol/Water Partition Coefficient: Not Applicable.
WEIGHT PER GALLON: 9.27 (U.S.) / 11.1 (IMPERIAL)

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
TITANIUM DIOXIDE 13463-67-7	7 - 13	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.
2- METHOXY- 1-PROPYL ACETATE 70657-70-4	0.1-1.0	Possible reproductive hazard. An ingredient(s) in this product has adversely affected reproductive tissues and fetal development in test animals.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:
 This product is normally stable and will not undergo hazardous reactions.
CONDITIONS TO AVOID:
 None Known.
INCOMPATIBLE MATERIALS:
 Avoid contact with strong alkalis, strong mineral acids, or strong oxidizing agents.
HAZARDOUS POLYMERIZATION:
 None Known.
HAZARDOUS DECOMPOSITION PRODUCTS:
 - Carbon monoxide - Carbon dioxide - Lower molecular weight polymer fractions

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS:
Ecotoxicity No data available
ENVIRONMENTAL FATE
Mobility: No information Available.
Biodegradation: No information Available.
Bioaccumulation No data available
PHYSICAL/CHEMICAL
Hydrolysis: No information Available.
Photolysis: No information Available.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
1-METHOXY-2- PROPYL ACETATE 108-65-6	10 - 30	8.53 g/kg	Not Available	Not Available
TOLUENE 108-88-3	10 - 30	5.00 g/kg	12.12 g/kg	Not Available
ETHYL ACETATE 141-78-6	10 - 30	5.62 g/kg	Not Available	14.41 mg/L, 4 h
ETHYL ALCOHOL 64-17-5	1 - 5	7.06 g/kg	Not Available	Not 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.

CHRONIC TOXICITY

Target Organs:
 - Carcinogen - Embryotoxin - Reproductive - Teratogen - Brain - Central nervous system - Lung

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: Paint
NOS Technical Name: None
Hazard Class: 3
Subsidiary Class(es): None
UN Number: UN1263
Packing Group: II

Mutagenicity:

This has not been tested for this product.

Reproductive:

This has not been tested for this product.

USA - RQ Hazardous Substances: Toluene, Ethyl Acetate
USA-RQ Hazardous Substance Toluene>4712.58 Pounds, Ethyl
Threshold Ship Weight: Acetate>35360.72 Pounds
Marine Pollutant Name: None
USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SUPPLEMENTAL HEALTH INFORMATION:

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



TRIANGLE FASTENER CORPORATION

Cleveland, OH 44109

P: 216.351.9933 F: 216.351.5008

www.trianglefastener.com

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One PPG Place
Pittsburgh, PA 15272

Product ID: UC60400 (0811)
PRODUCT NAME: DURANAR ADS WHITE "EZ" BA

Table with 5 columns: Material/CAS Number, Percent, CERCLA HS - RQ (LBS), SARA EHS - TPO (LBS), SARA 313. Rows include 1-METHOXY-2-PROPYL ACETATE, TOLUENE, ETHYL ACETATE, TITANIUM DIOXIDE, ETHYL ALCOHOL, and 2-METHOXY-1-PROPYL ACETATE.

UC60400 000011 (00306154.001)(09/29/04)
011101, 000, 0811
*** END OF MSDS ***
9.2 % 2000 1 0811 UC00400 .0611,000 UC60400 F 000 01109/29/04
0

SARA 311/312

Health (acute): Yes
Health (chronic): Yes
Fire (flammable): Yes
Pressure: No
Reactivity: No

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

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Additional Information

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 30
HMIS Rating: 2 30

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

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: Date. Edition.
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.

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