

MATERIAL SAFETY DATA SHEET



**SECTION 1 - PRODUCT AND COMPANY INFORMATION**

PPG/Porter Paints  
400 South 13th Street  
Louisville, KY 40203

**EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)**  
(24 hours/day):

(514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)  
0532-83889090 (China)

**TECHNICAL** (866) 823-2585

**INFORMATION:**

**PRODUCT SAFETY/MSDS INFORMATION:** (412) 492-5555 7:00 a.m.  
- 4:30 p.m. EST

**Product ID:** PP2744 (0878)  
**PRODUCT NAME:** PORTER GUARD F.D. ALKYD E  
**SYNONYMS:** None  
**ISSUE DATE:** 02/20/2007  
**EDITION NO.:** 4  
**CHEMICAL** Alkyd  
**FAMILY:**

**EMERGENCY OVERVIEW:**

Combustible. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. CAUSES EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. MAY BE ABSORBED THROUGH THE SKIN. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT. MAY BE HARMFUL IF SWALLOWED.

**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	
NAPHTHA 8052-41-3	15 - 40	X	
COATED CALCIUM CARBONATE 471-34-1	10 - 30	X	
ALUMINUM SILICATE 1332-58-7	5 - 10	X	
AROMATIC NAPHTHA 64742-95-6	0.5-1.5	X	
XYLENES 1330-20-7	0.1-1.0	X	
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	0.1-1.0	X	
COBALT NEODECANOATE 27253-31-2	0.1-1.0	X	
METHYL ETHYL KETOXIME 96-29-7 (As Cobalt Compds) 27253-31-2	*	X	See Sections 8 and 15 for information.
(As Glycol ethers) 111-77-3	*	X	See Sections 8 and 15 for information.
(As Nuisance Particulates) 471-34-1	*	X	See Sections 8 and 15 for information.

**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 moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

**SKIN ABSORPTION:**

May be absorbed through the skin.

**INHALATION:**

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

**INGESTION:**

May be 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. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. This product contains cobalt or a cobalt compound which is a possible cancer hazard based on animal data. The risk of cancer depends on the duration and level of exposure. 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. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone.

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 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 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.

**SECTION 5 - FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

**FLASHPOINT:** 110 Degrees F ( 43 Degrees C)

**FLASHPOINT TEST METHOD:**

Pensky-Martens Closed Cup

**UEL:** Not Available.

**LEL:** 1.0

**AUTOIGNITION TEMPERATURE:**

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 II combustible 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:**

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. 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 absorbant 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 II combustible 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 safety glasses with side shields.

**SKIN/GLOVES:**

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. 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.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
NAPHTHA 8052-41-3	15 - 40	100 ppm	Not established	100 ppm	Not established
ALUMINUM SILICATE 1332-58-7	5 - 10	R- 2 MG/m <sup>3</sup>	Not established	R- 5 mg/m <sup>3</sup>	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 PPM	100 ppm	150 ppm
COBALT NEODECANOATE 27253-31-2	0.1-1.0	0.02 mg/m <sup>3</sup>	Not established	0.05 mg/m <sup>3</sup>	Not established
(As Nuisance Particulates) 471-34-1	*	R- 3 MG/m <sup>3</sup>	Not established	R- 5 mg/m <sup>3</sup>	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
NAPHTHA 8052-41-3	15 - 40	525 MG/m <sup>3</sup>	Not established	Not established	Not established
COATED CALCIUM CARBONATE 471-34-1	10 - 30	10 MG/m <sup>3</sup>	Not established	Not established	Not established
ALUMINUM SILICATE 1332-58-7	5 - 10	R- 2 MG/m <sup>3</sup>	Not established	Not established	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	Not established	Not established
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	0.1-1.0	Not established	Not established	30 PPM	Not established
COBALT NEODECANOATE 27253-31-2	0.1-1.0	0.05 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	Not established	Not established
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	Not established	Not established	3 ppm	10 ppm
(As Nuisance Particulates) 471-34-1	*	R- 3 MG/m <sup>3</sup>	Not established	Not established	Not established

**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 (1989 Vacated values); 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)**

**SPECIFIC GRAVITY:** 1.112  
**PHYSICAL STATE:** Liquid  
**Percent Solids:** 66.64  
**Percent Volatile by Volume:** 47.330  
**pH:** Not available.  
**ODOR THRESHOLD:** Not available.  
**Vapour Pressure:** 2.0 mmHg  
**ODOR/APPEARANCE:** Viscous liquid with an odor characteristic of the solvents listed in Section 2.  
**VAPOR DENSITY:** HEAVIER THAN AIR  
**Evaporation Rate:** 25  
**BOILING POINT OR RANGE:** 280 - 410Degrees F  
**Freezing Point or Range:** Not Applicable.  
**Melting Point or Range(°C):** Not Applicable.  
**Partition coefficient (n-octanol/water):** Not Applicable.  
**WEIGHT PER GALLON:** 9.27 (U.S.) / 11.1 (IMPERIAL)

**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 - Oxides of aluminum - Lower molecular weight polymer fractions

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
NAPHTHA 8052-41-3	15 - 40	5.00 g/kg	Not Available	5.50 mg/l 4 hr
COATED CALCIUM CARBONATE 471-34-1	10 - 30	6.45 g/kg	Not Available	Not Available
AROMATIC NAPHTHA 64742-95-6	0.5-1.5	8.40 g/kg	3.48 g/kg	5.20 mg/l 4 hr
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	1.70 g/kg	21.88 mg/l 4 hr
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	0.1-1.0	9.20 g/kg	.65 g/kg	Not Available
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	1.69 g/kg	Not Available	Not Available

**CHRONIC TOXICITY**

**Ingredient Target Organ/Chronic Effects:**

- Cataract - Spleen - Bone marrow and blood tissues - Blood - Carcinogen - Embryotoxin - Brain - Central nervous system - Lung - Ear - Kidney - Liver

**Mutagenicity Toxicity:**

This has not been tested for this product.

**Reproductive Toxicity:**

This has not been tested for this product.

**SUPPLEMENTAL HEALTH INFORMATION:**

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	0.1-1.0	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.
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	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.

**SECTION 12 - ECOLOGICAL INFORMATION**

**POTENTIAL ENVIRONMENTAL EFFECTS**

**Ecotoxicity:** No Information Available.

**ENVIRONMENTAL FATE**

**Mobility:** No information available.  
**Biodegradation:** No information available.  
**Bioaccumulation:** No Information Available.

**PHYSICAL/CHEMICAL**

**Hydrolysis:** No information available.  
**Photolysis:** No information 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.

**SECTION 14 - TRANSPORTATION INFORMATION**

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

**USA - RQ Hazardous Substances:** Xylenes  
**USA-RQ Hazardous Substance:** Xylenes>37033.33 Pounds

**Threshold Ship Weight:**  
**Marine Pollutant Name:** None  
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.

**USA Shipments Only - RQ Threshold Ship Weight:** This is the total weight of this product that must be shipped to exceed the RQ quantity.

**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**

Material/ CAS Number	Percent	CERCLA HS - RQ (LBS)	SARA EHS- TPQ (LBS)	SARA 313
NAPHTHA 8052-41-3	15 - 40	Not Listed	Not Listed	Not Listed
COATED CALCIUM CARBONATE 471-34-1	10 - 30	Not Listed	Not Listed	Not Listed
ALUMINUM SILICATE 1332-58-7	5 - 10	Not Listed	Not Listed	Not Listed
AROMATIC NAPHTHA 64742-95-6	0.5-1.5	Not Listed	Not Listed	Not Listed
XYLENES 1330-20-7	0.1-1.0	100 lbs	Not Listed	Listed
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	0.1-1.0	Not Listed	Not Listed	Not Listed
COBALT NEODECANOATE 27253-31-2	0.1-1.0	Not Listed	Not Listed	Not Listed
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	Not Listed	Not Listed	Not Listed
(As Cobalt Compnds) 27253-31-2	*	Not Listed	Not Listed	Listed
(As Glycol ethers) 111-77-3	*	Not Listed	Not Listed	Listed

**SARA 311/312**

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

**WHMIS HAZARD CLASS:** - Class B, Division 6 - Class D, Division 2, Subdivision A

**STATE/PROVINCIAL REGULATIONS**

**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 20

**HMIS Rating:** 2\*20

**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

---

**PPG/Porter Paints**  
**400 South 13th Street**  
**Louisville, KY 40203**

**Product ID: PP2744 (0878)**  
**PRODUCT NAME: PORTER GUARD F.D. ALKYD E**

**REASON FOR REVISION:** Section 11 has been updated. Section 1 has been updated. Section 3 has been updated. Section 4 has been updated. Section 9 has been updated. Section 16 has been updated. Section 2 has been updated. Changes to this section may also result in changes in sections 8, 11 and/or 15. 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.

PP2744 000004 (00449349.001)(02/19/07)  
070219, 000, 0878

\*\*\* END OF MSDS \*\*\*