

# MATERIAL SAFETY DATA SHEET



## SECTION 1 - PRODUCT AND COMPANY INFORMATION

**PPG Industries, Inc.**  
**One PPG Place**  
**Pittsburgh, PA 15272**

**EMERGENCY PHONE NUMBERS (24 hours/day):**

**(304) 843-1300 (U.S.)**  
**(514) 645-1320 (Canada)**  
**01-800-00-21-400 (Mexico)**  
**0532-3889090 (China)**

**TECHNICAL INFORMATION:** (414) 764-6000 (OAK CREEK, WI) 8:00 a.m. - 5:00 p.m. Central

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

**PRODUCT ID:** **!CB190004A (0819)**

**PRODUCT NAME:** **INTENSE BLUE P.C.**

**ISSUE DATE:** 06/21/2003

**CUSTOMER PART #/NAME:** Not available.

**EDITION NO.:** 1

**CHEMICAL FAMILY:** Acrylic Melamine

### 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 IRREVERSIBLE EYE DAMAGE. MAY BE CORROSIVE. THIS PRODUCT CONTAINS A MATERIAL WHICH CAUSES SKIN BURNS. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT. HARMFUL IF SWALLOWED.

This is an overview of acute and physical hazards associated with this product. Please read the entire MSDS for complete information.

## 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:

<u>Material/CAS Number</u>	<u>Percent</u>	<u>Hazardous</u>
N-BUTYL ACETATE 123-86-4	7 - 13	X
ISOBUTYL ACETATE 110-19-0	1 - 5	X
N-HEPTANE 142-82-5	1 - 5	X
ETHYL ALCOHOL 64-17-5	1 - 5	X
2,6-DIMETHYLHEPTANONE 108-83-8	1 - 5	X
PHTHALOCYANINE PIGMENT BLUE 15 147-14-8	1 - 5	X

!CB190004A (0819)

TOLUENE 108-88-3	1 - 5	X
NAPHTHA 64742-48-9	1 - 5	X
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	X
NAPHTHA 64742-89-8	1 - 5	X
METHYL ETHYL KETONE 78-93-3	1 - 5	X
ALUMINUM POWDER 7429-90-5	0.5-1.5	X
ETHYLENE GLYCOL MONOHEXYL ETHER 112-25-4	0.5-1.5	X
XYLENES 1330-20-7	0.1-1.0	X

## SECTION 3 - HAZARDS IDENTIFICATION

### ACUTE OVEREXPOSURE EFFECTS

#### EYE CONTACT:

This product contains a material which causes irreversible eye damage. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

#### SKIN CONTACT:

May be corrosive. This product contains a material which causes skin burns. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

May be harmful if absorbed through the skin.

#### 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. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. If this product contains free formaldehyde, formaldehyde will be listed as an ingredient in Section 2 and 11 of this MSDS; if formaldehyde is not specifically listed, this product contains ingredients capable of releasing formaldehyde under certain conditions. Formaldehyde is a potential cancer hazard, a skin sensitizer and a respiratory sensitizer. 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. High exposures to xylenes in

!CB190004A (0819)

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. The significance of these findings to humans has not been determined. 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. Contact a poison control center, emergency room or physician right away as further treatment will 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. Contact a poison control center, emergency room or physician right away as further treatment will 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:** 27 Degrees F ( -3 Degrees C) **FLASHPOINT TEST METHOD:** Pensky-Martens Closed Cup

**UEL:** Not Available. **LEL:** 1.5

### 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 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

!CB190004A (0819)

**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 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 or full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

**SKIN/GLOVES:**

Wear protective clothing sufficient to cover exposed skin surfaces. For applications where skin contact is likely and impermeable clothing is necessary, select clothing 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.

<u>Material/CAS Number</u>	<u>Percent</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>
N-BUTYL ACETATE 123-86-4	7 - 13	150 PPM	200 ppm	150 ppm	200 ppm
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm	Not established	150 ppm	Not established
N-HEPTANE 142-82-5	1 - 5	400 ppm	500 ppm	400 ppm	500 ppm

!CB190004A (0819)

ETHYL ALCOHOL 64-17-5	1 - 5	1000 ppm	Not established	1000 ppm	Not established
2,6-DIMETHYLHEPTANONE 108-83-8	1 - 5	25 ppm	Not established	25 ppm	Not established
PHTHALOCYANINE PIGMENT BLUE 15 147-14-8	1 - 5	1 mg/m3	Not established	1 mg/m3	Not established
TOLUENE 108-88-3	1 - 5	S- 50 ppm	Not established	100 ppm	150 ppm
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	50 ppm	75 ppm	50 ppm	75 ppm
METHYL ETHYL KETONE 78-93-3	1 - 5	200 ppm	300 ppm	200 ppm	300 ppm
ALUMINUM POWDER 7429-90-5	0.5-1.5	10 mg/m3	Not established	R- 5 mg/m3	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	100 ppm	150 ppm

<u>Material/CAS Number</u>	<u>Percent</u>	<u>Ontario TWA</u>	<u>Ontario STEL</u>	<u>PPG IPEL</u>	<u>PPG STEL</u>
N-BUTYL ACETATE 123-86-4	7 - 13	150 ppm	200 ppm	Not established	Not established
ISOBUTYL ACETATE 110-19-0	1 - 5	150 ppm	187 ppm	Not established	Not established
N-HEPTANE 142-82-5	1 - 5	400 ppm	500 ppm	Not established	Not established
ETHYL ALCOHOL 64-17-5	1 - 5	1000 ppm	Not established	Not established	Not established
2,6-DIMETHYLHEPTANONE 108-83-8	1 - 5	25 ppm	Not established	Not established	Not established
PHTHALOCYANINE PIGMENT BLUE 15 147-14-8	1 - 5	1 mg/m3	Not established	Not established	Not established
TOLUENE 108-88-3	1 - 5	50 PPM	Not established	Not established	Not established
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	50 ppm	75 ppm	Not established	Not established
METHYL ETHYL KETONE 78-93-3	1 - 5	200 ppm	300 ppm	Not established	250 PPM
ALUMINUM POWDER 7429-90-5	0.5-1.5	5 mg/m3	0 MG/M3	Not established	Not established
ETHYLENE GLYCOL MONOHEXYL ETHER 112-25-4	0.5-1.5	Not established	Not established	20 ppm	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	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; 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)

!CB190004A (0819)

**SPECIFIC GRAVITY:** .988  
**PERCENT SOLIDS:** 55.84  
**PERCENT VOLATILE BY VOLUME:** 53.400  
**SOLUBILITY IN WATER (%):** 5.9 %  
**VAPOUR PRESSURE (mm Hg):** 26.9 mmHg

**PHYSICAL STATE:** Liquid  
**pH:** Not available.  
**ODOR THRESHOLD:** Not available.

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

**VAPOR DENSITY:** HEAVIER THAN AIR  
**EVAPORATION RATE:** 199  
**BOILING POINT OR RANGE:** 149- 478Degrees F  
**MELTING POINT OR RANGE:** Not available.  
**OCTANOL/WATER PARTITION COEFFICIENT:**  
**WEIGHT PER GALLON:** 8.23 (U.S.) / 9.8 (IMPERIAL)

**FREEZING POINT OR RANGE:** Not available.

Not available.

## 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 - Oxides of nitrogen - Oxides of aluminum  
- Chlorinated products

## SECTION 11 - TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**

<u>Material/CAS Number</u>	<u>Percent</u>	<u>ORAL LD50 (g/kg)</u>	<u>DERMAL LD50 (g/kg)</u>	<u>INHALATION LC50 (mg/l)</u>
N-BUTYL ACETATE 123-86-4	7 - 13	14.00 g/kg	Not Available	Not Available
ISOBUTYL ACETATE 110-19-0	1 - 5	13.40 g/kg	Not Available	Not Available
ETHYL ALCOHOL 64-17-5	1 - 5	7.06 g/kg	Not Available	Not Available
2,6-DIMETHYLHEPTANONE 108-83-8	1 - 5	5.75 g/kg	Not Available	Not Available
PHTHALOCYANINE PIGMENT BLUE 15 147-14-8	1 - 5	5.10 g/kg	Not Available	Not Available
TOLUENE 108-88-3	1 - 5	5.00 g/kg	12.12 g/kg	Not Available

!CB190004A (0819)

METHYL ISOBUTYL KETONE 108-10-1	1 - 5	2.08 g/kg	Not Available	32.77 mg/L. 4 h
METHYL ETHYL KETONE 78-93-3	1 - 5	2.74 g/kg	13.00 g/kg	Not Available
ETHYLENE GLYCOL MONOHEXYL ETHER 112-25-4	0.5-1.5	1.48 g/kg	.89 g/kg	Not Available
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	Not Available	Not Available

## CHRONIC TOXICITY

### TARGET ORGANS:

- Kidney - Liver - Embryotoxin - Teratogen - Brain - Central nervous system - Lung

### MUTAGENICITY:

This has not been tested for this product.

### REPRODUCTIVE:

This has not been tested for this product.

### SUPPLEMENTAL HEALTH INFORMATION:

#### Material/CAS Number

#### Percent

#### Ingredient Specific Animal Data:

METHYL ETHYL KETONE  
78-93-3

1 - 5

This product contains methyl ethyl ketone (MEK). MEK has been shown to cause minor embryotoxic/fetotoxic effects in laboratory animals exposed for prolonged periods at high concentrations via inhalation. The potential for human exposure to high concentrations is expected to be low due to the irritating effects of MEK at low concentrations.

## SECTION 12 - ECOLOGICAL INFORMATION

### POTENTIAL ENVIRONMENTAL EFFECTS:

**Ecotoxicity** No data available

### ENVIRONMENTAL FATE

**MOBILITY:** None Known.

**BIODEGRADATION:** None Known.

**Bioaccumulation** No data available

### PHYSICAL/CHEMICAL

**HYDROLYSIS:** None Known.

**PHOTOLYSIS:** None Known.

## 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.

!CB190004A (0819)

**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

**USA - RQ Hazardous Substances:**

None

**USA-RQ Hazardous Substance Threshold Ship Weight:**

None

**Marine Pollutant Name:**

None

**SECTION 15 - REGULATORY INFORMATION**

**INVENTORY STATUS**

**FEDERAL REGULATIONS**

**US Regulations**

<u>Material/CAS Number</u>	<u>Percent</u>	<u>CERCLA HS - RQ (LBS)</u>	<u>SARA EHS-TPQ (LBS)</u>	<u>SARA 313</u>
N-BUTYL ACETATE 123-86-4	7 - 13	5000 lbs	Not Listed	Not Listed
ISOBUTYL ACETATE 110-19-0	1 - 5	5000 lbs	Not Listed	Not Listed
TOLUENE 108-88-3	1 - 5	1000 lbs	Not Listed	Listed
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	5000 lbs	Not Listed	Listed
METHYL ETHYL KETONE 78-93-3	1 - 5	5000 lbs	Not Listed	Listed
ALUMINUM POWDER 7429-90-5	0.5-1.5	Not Listed	Not Listed	Listed
XYLENES 1330-20-7	0.1-1.0	100 lbs	Not Listed	Listed

**SARA 311/312**

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

**WHMIS HAZARD CLASS:** - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B - Class E - Class D, Division 1, Subdivision B

**STATE/PROVINCIAL REGULATIONS**

!CB190004A (0819)

### Additional Information

<u>Material/CAS Number</u>	<u>Percent</u>	<u>IARC Group</u> <u>1(Known</u> <u>Human Carc.)</u>	<u>IARC Group</u> <u>2A (Probable</u> <u>Carc.)</u>	<u>IARC 2B (</u> <u>Suspected</u> <u>Carc.)</u>	<u>ACGIH Carc.</u>	<u>NTP Known</u> <u>Carc.</u>	<u>OSHA Carc.</u>
----------------------------	----------------	--	---	---	--------------------	----------------------------------	-------------------

**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:** 3 30

**HMIS Rating:** 3 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.

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.

!CB190004A000003 (00154681.002)(06/17/03)

990617, 000, 0819

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