

Product: GIANT PLOTTER PEN all sizes, colors and points

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Giant Plotter Pen
 Synonyms: PGB42BK100, PG_____ various sizes and Inks including Inks BK11E, D26A
 Product Use: Pressurized Plotter Pen Ink Cartridge
 Manufacturer/ Vendor: Fisher Pen Company
 Information: 711 Yucca Street
 Boulder City, Nevada 89005
 USA
 MSDS Contact: Customer Service
 Telephone number: (702) 293-3011

SECTION 2 – COMPOSITION/ INFORMATION ON INGREDIENTS

Substance or Preparation:	CAS No.	Chemical Name	ACGIH (TLV) and OSHA	% by Weight
		Cartridge Brass or Nickel Silver (Copper, Zinc, Nickel)		≈ 75%
		316 Stainless Steel		≈ 1%
122-99-6		Ethylene glycol phenyl ether (EPH)		< 18%
		Various dyes, pigments & buffers		< 14%

SECTION 3 - HAZARDS IDENTIFICATION

Most important Hazards: The chemical formula of Fisher Pen Company inks are proprietary. Given their use as a single element in writing instruments, health hazards from any kind of normal use and exposure are presently considered nonexistent.

SECTION 4 - FIRST-AID MEASURES - INK

Eyes: Quickly and gently blot or brush away chemical. Flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation occurs, obtain medical advice.

Skin: If irritation does occur, wash skin with soap and warm water to remove product. Flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed and seek medical advice.

Inhalation: Not inhaleable at expected ambient temperatures

Ingestion: Induce vomiting. Call a doctor and contact local poison control center immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flash point: Not Applicable
 Flammable Limits in Air: Not Applicable
 Lower (LFL): Not Applicable
 Upper (UFL): Not Applicable
 Conditions of Flammability: Will not support combustion at ambient temperatures
 Extinguishing Media: Not Applicable
 Special Firefighting Procedure: Not Applicable
 Hazardous Combustion Products: Carbon monoxide, carbon dioxide, reactive hydrocarbons, carbonyl compounds, ammonia, nitrogen oxides, smoke, and irritating vapours may be produced on decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Not Applicable
 Environmental Precautions: Collect and dispose of in proper facility

SECTION 7: HANDLING AND STORAGE

Handling: Not Applicable
 Storage: Store in cool, dry, well-ventilated area. Store away from incompatible and reactive materials (See Sections 5 and 10). Store and transport in closed container. Avoid heat and fire as excessive heat may cause the container to rupture. Keep away from children.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

The selection of personal protective equipment varies, depending upon the conditions of use. Use equipment appropriate to your particular use pattern.
 Engineering Measures: Special ventilation is not necessary.

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Eye Protection: Not required.

Hand Protection: None necessary under normal conditions.

Skin and Body Protection: Not required.

Respiratory Protection: None necessary under normal use conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Physical State: Sealed brass or nickel silver tube with stainless steel tip

Melting Point: Not Applicable

Boiling Point: Not Applicable

Decomposition: Not Available

Temperature:

Auto-ignition Temperature: Not Applicable

Explosion Properties: None

Density/Specific Gravity: Varies generally > 8

Odor/Odor Threshold: Not Applicable

Evaporation Rate: Not Applicable

pH: Not Applicable

Octanol/ Water Partition Coefficient: Not Applicable

Vapour Pressure: Not Applicable

Vapour Density: Not Applicable

Solubility in Water: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Avoid heat sources or flames.

Materials to avoid: Avoid strong oxidizing agents, strong acids and strong bases.

Hazardous Decomposition Products: Not Applicable

Hazardous Polymerization: Not expected to undergo hazardous polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION - INK

Routes of Entry: Skin contact, Inhalation, Eye contact, Skin Absorption, Ingestion

Acute Toxicity Product Data:

Route & Species Value
Oral; rat LD50 >15 g/kg

Ingredient data:

Chemical	CAS#	Route & Species	Value
Ethylene glycol phenyl ether	122-99-6	Dermal; rabbit, LD50	=14422 mg/KG
9-Octadecenoic Acid	112-80-1	Not Available	
C.I. Solvent Blue 38	1328-51-4	Not Available	
C.I. Solvent Blue 43	61813-75-0	Not Available	
C.I. Solvent Green 1	NA	Not Available	
C.I. Solvent Yellow 47	71077-14-0	Not Available	
Cab-o-sil M-5	112945-52-5	Dermal; rabbit, LD50	> 2000 mg/kg

Eye Irritation: Classified as a mild eye irritant based on the results of an in-vitro test procedure.

Skin Irritation: Not anticipated to be a primary skin irritant based on the results of a human skin patch test and an in-vitro test.

Skin Sensitization: Evidence has shown that pure ethylene glycol may, in a small proportion of the population (<1%), cause skin sensitization upon repeated contact.

Respiratory Tract Sensitization: This product is not known to contain any components at >= 0.1% that have been shown to cause respiratory tract sensitization. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a respiratory tract sensitizer.

Ingestion: Ingestion of a large amount of this product may cause abdominal discomfort, Central Nervous System effects, cardiac effects and pulmonary edema due to the presence of Ethylene Glycol Phenyl Ether. Severe kidney damage may occur following ingestion of large

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amounts of ethylene glycol phenyl ether.

Chronic Toxicity

Carcinogenicity: Based on the known hazards of the components, the product is not expected to pose a carcinogenicity risk.

Mutagenicity: This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause Mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.

Reproductive Toxicity: This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxin.

Teratogenicity/Embryotoxicity This product is not expected to cause teratogenicity in animal studies at nonmaternally-toxic doses, based on known information about the components.

Other Chronic Effects: This product is not known to contain any components at $\geq 1.0\%$ that have been shown to cause other Chronic toxic effects. Therefore, based upon the available data and the known hazards of the components, contact with this product is not expected to cause other chronic toxic effects.

Toxicologically Synergistic Materials: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Mobility: Not Available

Persistence/Degradability Not Available

Bioaccumulation: Not Available

Ecotoxicity: Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method: In accordance with local, provincial, federal, or territorial guidelines and regulations.

SECTION 14 - TRANSPORT INFORMATION

TDG (Canada) Not Regulated

SECTION 15 - REGULATORY INFORMATION

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

WHMIS Classification: Not controlled

OSHA Classification: Non Hazardous
(OSHA Hazard Communication Standard (29 CFR §1910.1200))

	NPCA/HMIS	Hazard Ratings	NFPA 704
Health:	1		1
Flammability:	0		0
Reactivity:	0		0

All the ingredients in the product are listed on the TSCA Inventory. This product requires no labelling as per the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). None of the ingredients in this product are Class I or Class II ozone depleters. None of the ingredients in this product are listed as an Extremely Hazardous Substance under the RCRA, SARA 302/313, Clean Air Act, and Clean Water Act.

Regulated under SARA 311/312 Acute: no Chronic: no Fire: no

SECTION 16 - OTHER INFORMATION

Disclaimer: The information given is based on data currently available to us and is believed to be correct. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for injury or damage from the use of the products described herein.