

MATERIAL SAFETY DATA SHEET

UV Blocking Black Dye Ink

1. Product Identification and Company Information

Product Name: Piezo UV Blocking Black Ink (PN 01-0001-006)
Chemical family/Product type: Ink Jet Ink; water based; non-flammable
Manufacturer: Spectracorp
Address: 118 South Pecos Street
Denver, Colorado, 80223
Emergency Phone Number: 303-371-6979
Fax Number: 303-371-6688
CAS Number: Mixture/ Trade Secret
Last update: 4/16/2015

2. Hazard Identification

Black liquid with minimal odor. Product has little hazard if spilled and no known hazard created due to fire.

Skin: May cause slight irritation.
Eyes: May cause allergic reaction and irritation.
Respiratory System: May cause irritation.
Target Organs: Not Established.
Carcinogenicity: No known cancer hazard.

3. Composition and Information on Ingredients

Identification	CAS Number	Weight %	
Water	7732-18-5	< 80	
Proprietary Humectants	Not Established	< 30	
Proprietary Dye/Colorant	Not Established	< 10	
Isopropyl Alcohol	67-63-0	< 2	
Proprietary Antimicrobial/Antifungal agent	Not Established	< 1	

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4. First Aid

Skin:	Wash with soap and water and rinse thoroughly.
Eyes:	Flush eyes and under eyelids for 15 minutes with water. Seek medical attention if irritation or redness persists.
Inhalation:	Move to fresh air. Seek medical attention if irritation persists.
Ingestion:	Give water to dilute and get medical attention.

5. Fire Fighting Measures

NFPA Rating:	Health – 1, Flammability – 0, Reactivity – 0, Special Hazards - 0
Extinguishing Media:	Water Spray, carbon dioxide, dry chemical.
Hazardous Combustion Products:	Material may burn in fire conditions releasing Products which may be toxic (SO ₂ CO,CO ₂ , and volatile organics).
Fire Fighting Procedures:	Wear approved MSHA/NIOSH breathing apparatus and full protective clothing.

6. Accidental Release

Spill Response:	Collect spilled material and wash area with water.
Neutralizing Chemicals:	None Required
Waste Disposal:	Follow all federal, state and local Regulations

7. Handling and Storage

Handling: Avoid any contact with skin, eyes and clothing, do not breath vaporized fluid, wash hands and any areas that come in contact with fluid.

Storage: Do not store in extreme heat (100 degrees or hotter) or extreme cold (40 degrees or colder). Do not store in direct sunlight. Keep out of reach of children.

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8. Exposure Controls/Personal Protection

In accordance with good industrial practices, handle with care and avoid personal contact. Wear protective gloves, safety goggles, and other protective clothing. Avoid contact with skin, eyes, and clothing. Mechanical exhaust required. Irritant. Keep tightly closed. Keep from freezing.

Identification	CAS Number	OSHA	NIOSH	ACGIH
Water	7732-18-5	None	None	None
Proprietary Humectants	Not Established	Not Established	Not Established	Not Established
Proprietary Dye/Colorant	Not Established	Not Established	Not Established	Not Established
Isopropyl Alcohol	67-63-0	400 mg/m ³ TWA	400 mg/m ³ TWA	400 mg/m ³ TWA
Proprietary Antimicrobial/Antifungal agent	Not Established	Not Established	Not Established	Not Established

9. Physical Data

Appearance	Black Colored Liquid
Solubility in Water	Miscible
Freezing Point	Less than 0 degrees Celsius
Boiling Point	Greater than 100 degrees Celsius
PH (100%)	7.0 – 10.0
Specific Gravity, 25 C	1.01 - 1.10
Viscosity, cps @ 25 C	2.0 - 6.0
Flash Point, C	Not Established
Volatile Organic Compounds (VOC)	Less than 3%
Percent Volatiles	Less than 3%

10. Reactive Data

Reactivity:	No dangerous reaction under normal conditions known to occur.
Chemical Stability:	Stable under normal conditions. Will not polymerize.
Incompatibility:	Strong Oxidizing agents, Strong Acids
Hazardous Decomposition Products:	Carbon monoxide, Carbon Dioxide, Sulfur Oxides.

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11. Toxicological Information

The components of this product are not listed by the NTP, IARC, or regulated as a carcinogen of OSHA. The product has not been tested for ingestion but will likely cause irritation if ingested based upon the ingredients contained in the formula. Individual compounds are listed below in pure form. This is a mixture and concentration levels are dramatically reduced for the fluid over the pure chemical toxicological values.

Identification	CAS Number	Acute Toxicity	
		Ingestion LD50 Rat	Inhalation
Water	7732-18-5	No information available	No information available
Proprietary Humectants	Not Established	Not Established	Not Established
Proprietary Dye/Colorant	Not Established	Not Established	Not Established
Isopropyl alcohol	67-63-0	4,396 mg/kg	72.6 mg/l 4 hours
Proprietary Antimicrobial/ Antifungal agent	Not Established	Not Established	Not Established

12. Ecological Information

Environmental Hazard. There are no known environmental hazards contained in the product. The dye in the solution can color waterways and should not be disposed of except in small quantities in sanitary sewer systems.

13. Disposal Considerations

Waste Disposal: Dispose of waste in accordance to all local, state, provincial, and national requirements.

14. Transport Information

DOT: Proper Shipping Name: Ink Jet Ink

Non-Hazardous for Transport: This substance is considered to be nonhazardous for transport and not regulated under DOT, IATA, ADR, or RID.

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15. Regulatory Information

CALIFORNIA PROPOSITION 65: This product contains no chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

SARA Title III 311/312: This product has been reviewed according to the EPA Hazard Categories promulgated under section 311 and 312 of SARA TITLE III, and is considered, under applicable definition, to be an immediate/acute health hazard.

EEC SYMBOLS AND INDICATIONS OF DANGER: None

R-PHRASES: R36/38 – Irritating to eyes and skin.

S-PHRASES: S24/25 – Avoid contact with skin and eyes.

WHMIS HAZARD SYMBOLS: None

TOXIC Substance Control Act Status

All ingredients are listed on the Environmental Protection Agency's Toxic Substance Control Act (TSCA) Inventory.

16. Other

The above information is believed to be correct but does not purport to be all-inclusive and shall only be used as a guide. Spectracorp offers this information as a service to our customers and shall not be held liable for any damage resulting from handling or from contact with the above product.

END OF MSDS