



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

1. Product and Company Identification	
Product Name	PolyColor Screen Ink – Hydraulic Purple
Manufacturer's name	Horizons Incorporated
Address	18531 South Miles Road Cleveland, Ohio 44128
Emergency Telephone Number	(216) 475-0555
Information Telephone Number	(216) 475-0555

2. Hazards Identification	
<b>GHS Classification</b>	
H226 H302 H332 H312 H315 H320 H317	Flammable liquid – Category 3 Acute toxicity, Oral – Category 4 Acute toxicity, Inhalation – Category 4 Acute toxicity, Dermal – Category 4 Skin corrosion/irritation – Category 2 Serious eye damage/eye irritation – Category 2B Skin sensitization – Category 1B
<b>GHS Label Elements</b>	
Hazard Pictogram	
Signal Word	Danger
<b>Hazard Statements</b>	
H226 H302+H332 H312 H315 H320 H317	Flammable liquid and vapor Harmful if swallowed or inhaled Harmful in contact with skin Causes skin irritation Causes eye irritation May cause an allergic skin reaction
<b>Precautionary Statements</b>	
P210  P233 P280 P264 P270 P261 P271 P272 P303+P361+P353  P305+P351+P338  P333+P337+P313 P301+P330 P304+P340  P362+P364 P312 P403+P235	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking Keep container tightly closed Wear protective gloves/clothing and eye protection Wash thoroughly after handling Do not eat, drink, or smoke when using this product Avoid breathing fume, mists, & vapors Use only in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If skin rash or eye irritation occurs or persists, get medical advice/attention IF SWALLOWED: Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing Take off contaminated clothing and wash before reuse Call a poison center/doctor if you feel unwell Store in a well-ventilated place. Keep cool

### 3. Composition/Information on Ingredients

Components/ Materials	CAS Number	%
Diethylene Glycol Monobutyl Ether	112-34-5	<15
Propylene Glycol Methyl Ether Acetate	108-65-6	<55
Cyclohexanone	108-94-1	<8
2-Butoxyethanol	111-76-2	10
Solvent Blue 45	Not available	2
Solvent Red 127	97862-65-2	3
Chromium III (as an integral part of the dye molecule)	7440-47-3	<0.15

### 4. First Aid Measures

Inhalation	Promptly remove to fresh air. If breathing is difficult or irregular, give oxygen. If breathing is stopped, administer artificial respiration. Get medical attention immediately.
Skin Contact	Wash affected area with soap & water after contact. Rinse immediately with plenty of water for at least 15 minutes. Remove & wash contaminated clothing before reuse. If irritation develops, get medical attention.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Keep eyes wide open while rinsing. Get medical attention if irritation develops & persists.
Ingestion	Rinse mouth with water. DO NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

### 5. Fire Fighting Measures

<b>Flammable Properties</b>	Flash point – >111°F (44°C) TCC
<b>Flammable Limits</b>	
Lower Flammable Limit	0.9 Vol%
Upper Flammable Limit	24.6 Vol%
<b>Hazardous Combustion Products</b>	May include but not limited to: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur dioxide, Chromium oxides.
<b>Unusual Fire/Explosion Hazards</b>	Combustion products may be irritating to the skin, eyes, nose, and respiratory system. Vapor may travel back to ignition source and flashback. Product may be sensitive to static discharge, which could result in fire or explosion.
<b>Extinguishing Media</b>	Foam. Carbon Dioxide (CO <sub>2</sub> ). Dry chemical. Water fog. Do not use direct water stream, which may spread fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Special Firefighting Procedures</b>	Wear self-contained breathing apparatus & protective clothing to prevent contact with skin and eyes. Cool containers with water spray. Fire or intense heat may cause violent rupture of packages.

### 6. Accidental Release Measures

<b>Small Spill</b>	Absorb spill with an inert material and place in a chemical waste container
<b>Large Spill</b>	Remove all sources of ignition. Ventilate area. Contain spilled liquid with sand or earth. Absorb spill with an inert material and shovel into a chemical waste container. Prevent runoff from entering into sewers and ditches which lead into natural waterways. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 7. Handling and Storage

<b>Handling</b>	Avoid contact with eyes and clothing. Keep container closed. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of mists and vapors. Avoid prolonged or repeated contact with skin. Keep away from ignition sources. Take measures to prevent build-up of electrostatic charge.
<b>Storage</b>	Store between 65-85°F. Keep containers sealed when not in use.

## 8. Exposure Control/Personal Protection

Exposure Limits				
Chemical Name	CAS No.	OSHA	ACGIH	NIOSH
Diethylene Glycol Monobutyl Ether	112-34-5	ND	ND	ND
Propylene Glycol Methyl Ether Acetate	108-65-6	ND	ND	ND
Cyclohexanone	108-94-1	50 ppm TWA	20 ppm TWA (skin)	25 ppm TWA; 700 ppm IDLH
2-Butoxyethanol	111-76-2	120 mg/m <sup>3</sup> TWA	20 ppm TWA	700 ppm IDLH
Solvent Blue 45		ND	ND	ND
Solvent Red 127	97862-65-2	ND	ND	ND
Chromium III compounds	7440-47-3	0.5mg/m <sup>3</sup> TWA	0.5 mg/m <sup>3</sup> TWA	ND
ND – Not Determined				
<b>Engineering Controls</b>	Control airborne concentrations below the exposure limits. Use only with adequate ventilation. Local exhaust ventilation may be necessary. Keep containers covered whenever possible. Where explosive mixtures may be present, equipment safe for such locations should be used.			
<b>Respiratory Protection</b>	When respiratory protection is required, use a NIOSH approved air-purifying respirator equipped with an organic vapor canister. For emergency and other conditions where exposure limits may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply.			
<b>Skin Protection</b>	Wear protective gloves and clothing. Use of natural rubber (latex) gloves is NOT recommended. Use solvent-resistant apron & boots, if needed.			
<b>Eye Protection</b>	Use safety glasses with side shields or, preferably, chemical goggles. Contact lens use is not recommended.			

## 9. Physical and Chemical Properties

Boiling Point	302°F - 446°F (150°C - 230°C)
Specific Gravity	0.95
% Volatiles	74%
Solubility in Water	Insoluble
pH	No information available
Odor	Mild, ester-like odor
Form	Liquid
Color	Purple
VOC	5.86 lbs/gal coating (702 g/L)

## 10. Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal storage conditions
<b>Conditions to Avoid</b>	Keep product away from heat, sparks, static electricity, and open flame.
<b>Incompatibility</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Burning can produce carbon monoxide, carbon dioxide, nitrogen oxides, sulfur dioxide, & chromium oxides when heated to decomposition.
<b>Hazardous Polymerization</b>	Will not occur

## 11. Toxicological Information

Results of component toxicity test performed:	
Data for Diethylene Glycol Monobutyl Ether (CAS 112-34-5)	Acute Toxicity Data: Oral rat LD50: >2000 mg/kg; Dermal rabbit LD50: >2000 mg/kg; Repeated Dose Toxicity: Causes haemolysis of red blood cells &/or anemia in animals, but not considered relevant to humans.
Data for Propylene Glycol Methyl Ether Acetate (CAS 108-65-6)	Acute Toxicity Data: Oral rat LD50: 8532 mg/kg; Dermal rabbit LD50: >5000 mg/kg;
Data for Cyclohexanone (CAS 108-94-1)	Acute Toxicity Data: Oral rat LD50: 1800 mg/kg; Oral mouse LD50: 1400 mg/kg; Dermal rabbit LD50: 1 ml/kg; Inhalation rat LC50: 8000 ppm/4H; Draize rabbit, eye: 20 mg, severe. ACGIH A3 – Confirmed animal carcinogen with unknown relevance to humans.
Data for 2-Butoxyethanol (CAS 111-76-2)	Acute Toxicity Data: Oral rat LD50: 470 mg/kg; Skin rabbit LD50: 220 mg/kg; Inhalation rat LC50: 2.21 mg/L (4 hr)
Data for Solvent Blue 45	Acute Toxicity Data: Oral rat LD50: >2000 mg/kg; Dermal rat LD50: >2000 mg/kg.
Data for Solvent Red 127 (CAS 97862-65-2)	Acute Toxicity Data: Oral rat LD50: 526 mg/kg.

**12. Ecological Information**

The following properties are ESTIMATED from the components of the preparations.

**Potential Toxicity:**

Toxicity to <i>Salmo gairdneri</i> (LC50):	100-180 mg/L /96 Hr
Toxicity to <i>Daphnia magna</i> (EC50):	>100 mg/L /48 Hr
Toxicity to <i>D. subspicatus</i> (IC50):	> 100 mg/L 24 Hr

Persistence and degradability	ND
Chemical Oxygen Demand (COD)	ND
Biochemical Oxygen Demand (BOD)	ND
Chemical Fate Information	ND

**13. Disposal Considerations**

Liquid material should be disposed as flammable waste. Note that Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Contact a licensed professional waste disposal service to dispose of large quantities of this material

**14. Transport Information**

<b>Proper Shipping Name</b>	Printing Ink
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<b>UN No.</b>	UN1210
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<b>IATA Class</b>	Class 3
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<b>Packing Group</b>	III
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In the U.S. & Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

**15. Regulatory Information****U.S. Federal Regulations**

<b>TSCA Section 8 (b) Inventory</b>	All components are listed on the TSCA Chemical Inventory
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<b>OSHA</b>	Hazardous by definition of Hazard Communications Standard (29CFR1910.1200)
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**SARA Hazard Category**

<b>SARA 302 Components</b>	No listed components
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<b>SARA 313 Components</b>	Diethylene glycol monobutyl ether, 2-Butoxyethanol & Chromium III compounds are subject to the reporting requirements of Section 313 of SARA Title III and 40CFR.
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<b>SARA 311/312 Hazards</b>	Acute Health Hazard, Chronic Health Hazard, Fire Hazard
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<b>Clean Air Act</b>	Diethylene glycol monobutyl ether is listed as a hazardous air pollutant (HAP).
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<b>Clean Water Act</b>	Contains priority pollutant chromium at concentrations >0.1%
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<b>CERCLA</b>	Cyclohexanone; 5000 lb final RQ Chromium, 5000 lb final RQ.
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**State Regulations**

<b>Massachusetts Right To Know Components</b>	2-Butoxyethanol, Cyclohexanone
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<b>Pennsylvania Right To Know Components</b>	2-Butoxyethanol, Cyclohexanone, Diethylene glycol monobutyl ether
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<b>New Jersey Right To Know Components</b>	2-Butoxyethanol, Cyclohexanone
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<b>California Proposition 65 Components</b>	This product does not contain any chemical known to the State of California to cause cancer or reproductive harm.
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**16. Other Information****HMIS**

H – 2

F – 2

R – 0

PPE – B

The information in this material safety data sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations & management, and for persons working with or handling this product. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions but does not purport to be all inclusive. Horizons Incorporated shall not be held liable for any damage resulting from handling or from contact with the above product.