

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 – Blue	
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	

GHS Classification	2. Hazards Identificati	on
H302   Acute toxicity, Oral – Category 4     H312   Acute toxicity, Inhalation – Category 4     H315   Skin corrosion/irritation – Category 2     H316   Skin corrosion/irritation – Category 2     H317   Skin sensitization – Category 2B     H318   Skin sensitization – Category 1B	GHS Classification	
H302   Acute toxicity, Oral – Category 4     H312   Acute toxicity, Inhalation – Category 4     H315   Skin corrosion/irritation – Category 2     H316   Skin corrosion/irritation – Category 2     H317   Skin sensitization – Category 2B     H318   Skin sensitization – Category 1B	H226	Flammable liquid – Category 3
H312 H315 H316 H317 Skin corrosion/irritation – Category 2 Serious eye damage/eye irritation – Category 2B Skin sensitization – Category 1B  GHS Label Elements  Hazard Pictogram  Signal Word Hazard Statements  H226 H302+H332 H312 H312 H314 H315 H320 H317 Causes skin irritation Causes eye irritation Causes eye irritation May cause an allergic skin reaction  Precautionary Statements  P210  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 workp P303+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remore 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.	H302	
H315   Skin corrosion/irritation — Category 2   Serious eye damage/eye irritation — Category 2B   Skin sensitization — Category 1B	H332	Acute toxicity, Inhalation – Category 4
H320 H317  GHS Label Elements  Hazard Pictogram  Signal Word Hazard Statements  Flammable liquid and vapor Hazard Statements  H302+H332 H312 H315 Causes skin irritation H320 Causes eye irritation Causes eye irritation May cause an allergic skin reaction  Precautionary Statements  P210  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 workp P303+P351+P353  If ON SKIN (or hair): Take off immediately all contaminated clothing Rinse skin with water P303+P351+P338  If SKIN cash or eye irritation occurs or persists, get medical advice/attention IF SWALLOWED: Rinse mouth.	H312	
H317  GHS Label Elements  Hazard Pictogram  Signal Word  Hazard Statements  Flammable liquid and vapor Hamful if swallowed or inhaled Harmful in contact with skin Causes skin irritation Causes skin irritation Causes eye irritation May cause an allergic skin reaction  Precautionary Statements  P210  Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking Resp 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 workp P303+P361+P353  If ON SKIN (or hair): Take off immediately all contaminated clothing Rinse skin with water P305+P351+P338  If SKIN services in Elements  Skin sensitization — Category 1B  Flammable liquid and vapor Harmful if swallowed or inhaled Harmful if swallowed Harmful if swallowed or inhaled Harmful if swallowed or inhaled Harmful if swallowed or i	H315	
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breathing		· · · · · · · · · · · · · · · · · · ·
P362+P364 Take off contaminated clothing and wash before reuse	P362+P364	
P312 Call a poison center/doctor if you feel unwell		
P403+P235 Store in a well-ventilated place. Keep cool	P403+P235	

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	6

4. First Aid Measure	es
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	
Flammable Properties	Flash point – >111°F (44°C) TCC
Flammable Limits	
Lower Flammable Limit	0.9 Vol%
Upper Flammable Limit	24.6 Vol%
Hazardous Combustion Products	May include but not limited to: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur dioxide.
Unusual Fire/Explosion Hazards	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.
Extinguishing Media	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.
Special Firefighting Procedures	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		
Small Spill	Absorb spill with an inert material and place in a chemical waste container	
Large Spill	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		
Handling	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.	
Storage	Store between 65-85°F. Keep containers sealed when not in use.	

8. Exposure Co	ontrol/Perso	onal 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/m3 TWA	20 ppm TWA	700 ppm IDLH
Solvent Blue 45		ND	ND	ND
•		•	·	ND - Not Determine
Engineering Controls		with adequate ventila Keep containers cover	centrations below the expo tion. Local exhaust ventila ered whenever possible. W ipment safe for such locati	ition may be necessary. There explosive mixtures
Respiratory Protection  When respiratory protection is required, use a NIOSH purifying respirator equipped with an organic vapor car emergency and other conditions where exposure limits exceeded, use an approved positive-pressure, self-cor apparatus or positive-pressure air line with auxiliary se supply.		NIOSH approved air- apor canister. For re limits may be greatly self-contained breathing		
Skin Protection  Wear protective gloves and clothing. Use of natural rubbe gloves is NOT recommended. Use solvent-resistant aprol needed.				
Eye Protection		Use safety glasses w Contact lens use is n	rith side shields or, prefera ot recommended.	bly, chemical goggles.

9. Physical and Chemical F	roperties	
Boiling Point	302°F - 446°F (150°C - 230°C)	
Specific Gravity	0.95	
% Volatiles	74%	
Solubility in Water	Insoluble	
рН	No information available	
Odor	Mild, ester-like odor	
Form	Liquid	
Color	Blue	
VOC	5.86 lbs/gal coating (702 g/L)	
10. Stability and Reactivity		
Chemical Stability	Stable under normal storage conditions	
Conditions to Avoid	Keep product away from heat, sparks, static electricity, and open flame.	
Incompatibility	Strong acids. Strong bases. Strong oxidizing agents.	
Hazardous Decomposition Products	Burning can produce carbon monoxide, carbon dioxide, nitrogen oxides,	
	& sulfur dioxide when heated to decomposition.	
Hazardous Polymerization	Will not occur	

11. Toxicological Information	n
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.

## 12. Ecological Information

The following properties are ESTIMATED from the components of the preparations.		
Potential Toxicity:		
Toxicity to Salmo gairdneri (LC50): 100-180 mg/L /96 Hr		-lr
Toxicity to Daphnia magna (EC50):	>100 mg/L /48 Hr	
Toxicity to D. subspicatus (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	
Proper Shipping Name	Printing Ink
UN No.	UN1210
IATA Class	Class 3
Packing Group	III

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	
TSCA Section 8 (b) Inventory	All components are listed on the TSCA Chemical Inventory
OSHA	Hazardous by definition of Hazard Communications Standard (29CFR1910.1200)
SARA Hazard Category	
SARA 302 Components	No listed components
SARA 313 Components	Diethylene glycol monobutyl ether & 2-Butoxyethanol are subject to the reporting requirements of Section 313 of SARA 313Title III and 40CFR.
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard, Fire Hazard
Clean Air Act	Diethylene glycol monobutyl ether is listed as a hazardous air pollutant (HAP).
CERCLA	Cyclohexanone; 5000 lb final RQ.
State Regulations	
Massachusetts Right To Know	2-Butoxyethanol, Cyclohexanone
Components	
Pennsylvania Right To Know Components	2-Butoxyethanol, Cyclohexanone, Diethylene glycol monobutyl ether
New Jersey Right To Know Components	2-Butoxyethanol, Cyclohexanone
California Proposition 65 Components	This product does not contain any chemical known to the State of California to cause cancer or reproductive harm.

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.