




## Safety Data Sheet

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

1. Product and Company Identification	
Product Name	PolyColor Dye – Fire Red
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>	
H227 H303 H333 H313 H318 H320	Flammable liquid – Category 4 Acute toxicity, Oral – Category 5 Acute toxicity, Inhalation – Category 5 Acute toxicity, Dermal – Category 5 Skin corrosion/irritation – Category 2 Serious eye damage/eye irritation – Category 2B
<b>GHS Label Elements</b>	
Hazard Pictogram	
Signal Word	Warning
<b>Hazard Statements</b>	
H227 H303 H313 H333 H315 H320	Combustible liquid May be harmful if swallowed May be harmful in contact with skin May be harmful if inhaled Causes skin irritation Causes eye irritation
<b>Precautionary Statements</b>	
P210  P264 P280 P302+P352 P305+P351+P338  P332+P337+P313 P312 P362+P364 P403	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking Wash thoroughly after handling Wear protective gloves, protective clothing, and eye protection IF ON SKIN: wash with plenty of water IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If skin or eye irritation occurs or persists: Get medical advice/attention Call a poison center/doctor if you feel unwell Take off contaminated clothing and wash before reuse Store in a well-ventilated place

3. Composition/Information on Ingredients		
Components/ Materials	CAS Number	%
Butyl Lactate	138-22-7	84
Solvent Red 119	Not available	8
Solvent Orange 54	Not available	8
Chromium III (as an integral part of the dye molecule)	7440-47-3	<0.5

<b>4. First Aid Measures</b>	
Inhalation	Promptly remove to fresh air. If breathing is stopped or irregular, 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. 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.

<b>5. Fire Fighting Measures</b>	
<b>Flammable Properties</b>	Flash point – >156°F (69°C) TCC
<b>Flammable Limits</b>	
Lower Flammable Limit	Not available
Upper Flammable Limit	Not available
<b>Hazardous Combustion Products</b>	Carbon monoxide, Carbon dioxide, nitrogen oxides, chromium oxides.
<b>Unusual Fire/Explosion Hazards</b>	Combustion products may be irritating to the skin, eyes, nose, and respiratory system.
<b>Extinguishing Media</b>	Foam. Carbon Dioxide (CO <sub>2</sub> ). Dry chemical. Water spray. 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.

<b>6. Accidental Release Measures</b>	
<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.

<b>7. Handling and Storage</b>	
<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.
<b>Storage</b>	Store between 65-85°F. Keep containers sealed when not in use.

<b>8. Exposure Control/Personal Protection</b>				
<b>Exposure Limits</b>				
Chemical Name	CAS No.	OSHA	ACGIH	NIOSH
Butyl Lactate	138-22-7	25 mg/m <sup>3</sup> TWA	5 ppm TWA	5 ppm IDLH
Solvent Red 119		ND	ND	ND
Solvent Orange 54		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.			
<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 solvent-resistant apron & boots, if needed.			
<b>Eye Protection</b>	Use safety glasses with side shields or, preferably, chemical goggles.			

**9. Physical and Chemical Properties**

Boiling Point	367°F (186°C)
Specific Gravity	1.02
% Volatiles	84%
Solubility in Water	Slightly soluble (3.4ml/100ml)
pH	No information available
Odor	Mild, characteristic odor
Form	Liquid
Color	Red
VOC	7.14 lbs/gal coating

**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 bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Burning can produce carbon monoxide, carbon dioxide, nitrogen oxides, & chromium oxides when heated to decomposition.
<b>Hazardous Polymerization</b>	Will not occur

**11. Toxicological Information**

Results of component toxicity test performed:	
Data for Butyl Lactate (CAS 138-22-7)	Acute Toxicity Data: Oral rat LD50: >5000 mg/kg; Subcutaneous rat LD50: 12000 mg/kg; Skin rabbit LD50: >5000 mg/kg; Draize test, rabbit, skin: 500 mg/24H Moderate Inhalation, rat LC50:>5140 mg/kg
Data for Solvent Red 119	Acute Toxicity Data: Oral rat LD50: >10000 mg/kg;
Data for Solvent Orange 54	Acute Toxicity Data: Oral rat LD50: >5000 mg/kg.

**12. Ecological Information**

The following properties are ESTIMATED from the components of the preparations.	
Potential Toxicity:	
Toxicity to Danio rerio (LC50):	75 mg/L /96 Hr
Toxicity to Daphnia magna (EC50):	320 mg/L /48Hr
Persistence and degradability	ND
Chemical Oxygen Demand (COD)	1.97lb O <sub>2</sub> /lb
Biochemical Oxygen Demand (BOD)	ND
Chemical Fate Information	ND

**13. Disposal Considerations**

This product contains chromium predominantly in the trivalent state. Wastes containing chromium may be D007 RCRA hazardous wastes per 40 CFR261.24. 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>	Combustible Liquid, N.O.S.
<b>UN No.</b>	NA1993
<b>IATA Class</b>	Not Regulated
<b>Packing Group</b>	III

**15. Regulatory Information**

<b>U.S. Federal Regulations</b>	
<b>TSCA Section 8 (b) Inventory</b>	All components are listed on the TSCA Chemical Inventory
<b>OSHA</b>	Hazardous by definition of Hazard Communications Standard (29CFR1910.1200)
<b>SARA Hazard Category</b>	
<b>SARA 302 Components</b>	No listed components
<b>SARA 313 Components</b>	Chromium III compounds.
<b>SARA 311/312 Hazards</b>	Acute Health Hazard, Chronic Health Hazard, Fire Hazard
<b>Clean Water Act</b>	Contains priority pollutant chromium at concentrations >0.1%
<b>CERCLA</b>	Chromium, RQ 5000pounds
<b>State Regulations</b>	
<b>Massachusetts Right To Know</b>	Butyl Lactate

<b>Components</b>	
<b>Pennsylvania Right To Know Components</b>	Butyl Lactate
<b>New Jersey Right To Know Components</b>	Butyl Lactate
<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.

## 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.