



## Safety Data Sheet

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

1. Product and Company Identification	
Product Name	Water Soluble Background Dye – Green
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>	
H303 H333 H313 H316 H320	Acute toxicity, Oral – Category 5 Acute toxicity, Inhalation – Category 5 Acute toxicity, Dermal – Category 5 Skin corrosion/irritation – Category 3 Serious eye damage/eye irritation – Category 2B
<b>GHS Label Elements</b>	
Hazard Pictogram	<i>No symbol</i>
Signal Word	Warning
Hazard Statements	
H303 H313 H333 H316 H320	May be harmful if swallowed May be harmful in contact with skin May be harmful if inhaled Causes mild skin irritation Causes eye irritation
Precautionary Statements	
P280 P264 P302+P352 P305+P351+P338  P332+P337+P313 P312	Wear protective gloves and eye protection Wash thoroughly after handling IF ON SKIN: flush area of contact 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 or eye irritation occurs or persists: Get medical advice/attention Call a poison center/doctor if you feel unwell

3. Composition/Information on Ingredients		
Components/ Materials	CAS Number	%
Mixture of Anthraquinone & Azo dyes	Not available	30-50
Aluminum Fast Blue G	Not available	20-30
Hexylene glycol	107-41-5	<2

4. First Aid Measures	
Inhalation	Promptly remove to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get medical attention promptly.
Skin Contact	Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention. Wash contaminated clothing before reuse.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If redness or irritation occurs, seek medical attention.
Ingestion	DO NOT induce vomiting. Rinse mouth with water. Call a physician or poison control center immediately.

5. Fire Fighting Measures
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<b>Flammable Properties</b>	Flash point – None
<b>Flammable Limits</b>	
Lower Flammable Limit	Not applicable
Upper Flammable Limit	Not applicable
<b>Hazardous Combustion Products</b>	Thermal decomposition may produce oxides of carbon, nitrogen, & sulfur.
<b>Unusual Fire/Explosion Hazards</b>	This product presents no unusual fire or explosion hazards while sealed in shipping container. During usage, if a dust cloud is generated, organic powders have the potential to be explosive with static spark or flame initiation.
<b>Extinguishing Media</b>	Dry chemical, water, foam, or carbon dioxide.
<b>Special Firefighting Procedures</b>	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

## 6. Accidental Release Measures

<b>Small Spill</b>	Vacuum or sweep up material and place into a suitable disposal container.
<b>Large Spill</b>	Wear proper protective equipment. Vacuuming or wet sweeping may be used to avoid dust dispersal. Clean-up by removal of contaminated soil or by flushing with a limited quantity of water if appropriate. Place material or contaminated soils in a suitable disposal container.

## 7. Handling and Storage

<b>Handling</b>	Minimize dust generation and accumulation. Keep away from sources of ignition. Lead off electrostatic charges. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Keep container closed. Use only in a well ventilated area. Wash thoroughly after handling.
<b>Storage</b>	Store between 65-85°F. Keep containers sealed when not in use.

## 8. Exposure Control/Personal Protection

<b>Exposure Limits</b>				
Chemical Name	CAS No.	OSHA	ACGIH	NIOSH
Hexylene glycol	107-41-5	125 mg/m <sup>3</sup> TWA	121mg/m <sup>3</sup> TLV	ND
Aluminum Fast Blue G		ND	ND	ND
Mixture of Anthraquinone & Azo dyes		ND	ND	ND

ND – Not Determined

The ingredients listed for this product <b>are not</b> reported by NTP or IARC or regulated by OSHA as a carcinogen	
<b>Engineering Controls</b>	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
<b>Respiratory Protection</b>	When respiratory protection is required, use a NIOSH approved air-purifying respirator equipped with a high efficiency dust/mist filter. 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>	Use impervious gloves, such as butyl or polychloroprene, when routinely handling chemical products.
<b>Eye Protection</b>	Use safety glasses with side shields or, preferably, chemical goggles.

## 9. Physical and Chemical Properties

Boiling Point	Not determined
Specific Gravity	Not determined
% Volatiles	None
Solubility in Water	Soluble
pH	9 (20°C, 3g/l)
Odor	Mild
Form	Powder
Color	Blue Green
VOC	None

## 10. Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal storage conditions.
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<b>Conditions to Avoid</b>	Avoid dust generation.
<b>Incompatibility</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Oxides of carbon, nitrogen, & sulfur.
<b>Hazardous Polymerization</b>	Will not occur

## 11. Toxicological Information

Results of component toxicity test performed:

Data for Aluminum Fast Blue G	Acute Toxicity Data: Oral LD50: 5000 mg/kg (rat). Skin Irritation: non-irritant (rabbit) Method: 16CFR1500.41 Eye irritation: non-irritant (rabbit) Method: 16CFR1500.42
Data for Hexylene glycol (CAS 107-41-5)	Acute Toxicity Data: Oral LD50: 3700 mg/kg (rat). Skin Irritation: irritant (rabbit) Eye irritation: severe irritant (rabbit)

## 12. Ecological Information

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

Potential Toxicity:

Toxicity to fish (rainbow trout), (LC0)	550 mg/l/48hr.
Toxicity to bacteria (activated sludge), (IC50), Method: OECD 209	>100 mg/l.
Persistence and degradability	Biodegradation approx. 80% (14d, TOC)
Chemical Oxygen Demand (COD)	ND
Biochemical Oxygen Demand (BOD)	ND
Chemical Fate Information	ND

## 13. Disposal Considerations

Small quantities may generally be discharged to sewers. 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>	Chemicals, N.O.S., Not D.O.T. Regulated
<b>UN No.</b>	None
<b>IATA Class</b>	Not Regulated
<b>Packing Group</b>	Not applicable

## 15. Regulatory Information

**U.S. Federal Regulations**

<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>	None
<b>SARA 313 Components</b>	None
<b>SARA 311/312 Hazards</b>	Acute health Hazard, Chronic health Hazard
<b>Clean Water Act (CWA)</b>	None
<b>CERCLA</b>	None

**State Regulations**

<b>Massachusetts Right To Know Components</b>	2-Methylpentane-2,4-diol (CAS 107-41-5)
<b>Pennsylvania Right To Know Components</b>	2-Methylpentane-2,4-diol (CAS 107-41-5)
<b>New Jersey Right To Know Components</b>	2-Methylpentane-2,4-diol (CAS 107-41-5)
<b>California Proposition 65 Components</b>	This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

## 16. Other Information

HMIS

H – 1
F – 1
R – 0
PPE – E
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.