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 – 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

2. Hazards Identification

GHS Classification

H303	Acute toxicity, Oral – Category 5
H333	Acute toxicity, Inhalation – Category 5
H313	Acute toxicity, Dermal – Category 5
H316	Skin corrosion/irritation – Category 3
H320	Serious eye damage/eye irritation – Category 2B

GHS Label Elements

Hazard Pictogram	*No symbol*
Signal Word	Warning
Hazard Statements	
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H333	May be harmful if inhaled
H316	Causes mild skin irritation
H320	Causes eye irritation
Precautionary Statements	
P280	Wear protective gloves and eye protection
P264	Wash thoroughly after handling
P302+P352	IF ON SKIN: flush area of contact with water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P337+P313	If skin or eye irritation occurs or persists: Get medical advice/attention
P312	Call a poison center/doctor if you feel unwell

3. Composition/Information on Ingredients

Components/ Materials	CAS Number	%
Aluminum Fast Blue G	Not available	80-98
Hexylene glycol	107-41-5	2-4

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

Flammable Properties		Flash point – None
Flammable Limits		
	Lower Flammable Limit	Not applicable
	Upper Flammable Limit	Not applicable
Hazardous Combustion Products		Thermal decomposition may produce oxides of carbon, nitrogen, & sulfur.
Unusual Fire/Explosion Hazards		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.
Extinguishing Media		Dry chemical, water, foam, or carbon dioxide.
Special Firefighting Procedures		Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Small Spill	Vacuum or sweep up material and place into a suitable disposal container.
Large Spill	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

Handling	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.
Storage	Store between 65-85ºF. Keep containers sealed when not in use.

8. Exposure Control/Personal Protection

Exposure Limits

Chemical Name	CAS No.	OSHA	ACGIH	NIOSH
Hexylene glycol	107-41-5	125 mg/m^3 TWA	121mg/m^3 TLV	ND
Aluminum Fast Blue G		ND	ND	ND

ND – Not Determined

The ingredients listed for this product **are not** reported by NTP or IARC or regulated by OSHA as a carcinogen

Engineering Controls	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.
Respiratory Protection	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.
Skin Protection	Use impervious gloves, such as butyl or polychloroprene, when routinely handling chemical products.
Eye Protection	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^{0}C, 3g/l)
Odor	Mild
Form	Granules
Color	Dark Blue
VOC	None

10. Stability and Reactivity

Chemical Stability	Stable under normal storage conditions.
Conditions to Avoid	Avoid dust generation.
Incompatibility	Strong oxidizing agents.
Hazardous Decomposition Products	Oxides of carbon, nitrogen, & sulfur.
Hazardous Polymerization	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

Proper Shipping Name	Chemicals, N.O.S., Not D.O.T. Regulated
UN No.	None
IATA Class	Not Regulated
Packing Group	Not applicable

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	None
SARA 313 Components	None
SARA 311/312 Hazards	Acute health Hazard, Chronic health Hazard
Clean Water Act (CWA)	None
CERCLA	None
State Regulations	
Massachusetts Right To Know Components	2-Methylpentane-2,4-diol (CAS 107-41-5)
Pennsylvania Right To Know Components	2-Methylpentane-2,4-diol (CAS 107-41-5)
New Jersey Right To Know Components	2-Methylpentane-2,4-diol (CAS 107-41-5)
California Proposition 65 Components	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.