



Rooted in Science

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name Pathfinder Blue

SDS Date April 15, 2024

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Spray Pattern Indicator

Uses Advised Against: None known

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer: Floratine Products Group, Inc.
355 East South Street
Collierville, TN 38017 USA
+1 901-853-2898

Importer: Turfcare Australia
Shane Summerhayes
115 PITTOWN RD. MCGRATHS HILL
SYDNEY NSW Australia 6400
+61 (425) 280300
shane@turfcareaus.com.au

1.4 Emergency Telephone Number

Emergency Spill Information 1(800) 535-5053 for US and Canada (INFOTRAC)
+1(352) 323-3500 for International Calls (call INFOTRAC collect)

Other Product Information: cs@floratine.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008): Not Hazardous

EU Classification (67/548/EEC): Not a dangerous substance

2.2 Label Elements

No Labeling Required

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

| Chemical Name | CAS Number / | % (w/w) | EU Classification | CLP/GHS Classification |
|---------------|--------------|---------|-------------------|------------------------|
|---------------|--------------|---------|-------------------|------------------------|

| | EINECS Number / REACH Reg. Number | | (67/548/EEC) | (1272/2008) |
|-------------------------------|--------------------------------------|-------------|---------------|---------------|
| Acid Blue 9, Disodium Salt | 3844-45-9 223-339-8 | Proprietary | Not dangerous | Not hazardous |

See Section 16 for full text of GHS and EU Classifications.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First Aid

Eye contact: Flush eye with water for 15 minutes while lifting the upper and lower lids. Seek medical attention if irritation persists.

Skin contact: Wash with soap and water. Get medical attention if irritation develops.

Inhalation: Remove victim to fresh air. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If the person is alert, have them rinse their mouth with water and sip one glass of water. Call a poison center of physician for advice. Never give anything by mouth to an unconscious or drowsy person.

See Section 11 for more detailed information on health effects.

4.2 Most important symptoms and effects, both acute and delayed: May cause eye irritation. Prolonged skin contact may cause irritation. Inhalation of dust may cause respiratory irritation. Ingestion may cause gastrointestinal irritation with nausea and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention should not be needed unless large amounts are swallowed.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media: Use any media that is suitable for the surrounding fire. Water can be used to cool fire exposed containers

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None

Combustion Products: Not combustible

5.3 Advice for Fire-Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective equipment. Avoid direct contact with spilled material.

6.2 Environmental Precautions:

Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations.

6.3 Methods and Material for Containment and Cleaning Up:

Sweep up and place into an appropriate container for use or disposal. Wash spill site with water.

6.4 Reference to Other Sections:

Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for Safe Handling:

Avoid eye and prolonged skin contact. Use with adequate ventilation. Use reasonable care in handling. Do not eat, drink or smoke while using product. Wash thoroughly with soap and water after handling.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Protect containers from physical damage. Keep containers closed. Empty containers retain product residues. Follow all SDS precautions in handling empty containers. Store away from food and feed.

7.3 Specific end use(s):

Industrial uses: None identified

Professional uses: Spray Pattern Indicator

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

| Chemical Name | US OEL | EU IOEL | UK OEL | Biological Limit Value |
|----------------------------|------------------|------------------|------------------|------------------------|
| Acid Blue 9, Disodium Salt | None Established | None Established | None Established | None Established |

8.2 Exposure Controls:

Recommended Monitoring Procedures: None.

Appropriate Engineering Controls: Good outdoor ventilation should be adequate under normal conditions.

Personal Protective Measures

Eye/face Protection: Chemical goggles recommended if needed to avoid eye contact.

Skin Protection: Impervious clothing is recommended if needed to avoid prolonged/repeated skin contact.

Hands: Impervious gloves are recommended if needed to avoid prolonged/repeated skin contact.

Respiratory Protection: None needed under normal use conditions with adequate ventilation. If dust is generated, an approved particulate respirator can be used. Use respirators in accordance with local and national regulations.

Other protection: Suitable washing facilities should be available in the work area.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance: Dark Blue Powder

Odor Threshold: Not applicable

Odor: No odor.

pH: Not available

Melting/Freezing Point: Not applicable
Flash Point: None
Lower Flammability Limit: None
Upper Flammability Limit: None
Vapor Density(Air=1): Not applicable
Solubility: Complete
Autoignition Temperature: None
Viscosity: Not established
Oxidizing Properties: None
Molecular Formula: Mixture

Boiling Point: Not applicable
Evaporation Rate: Not applicable
Vapor Pressure: Not applicable

Relative Density: Not available
Octanol/Water Partition Coefficient: Not established
Decomposition Temperature: Not applicable
Explosive Properties: None
Specific Gravity (H₂O= 1): Not available
Molecular Weight: Mixture

9.2 Other Information: None available

SECTION 10: STABILITY and REACTIVITY

10.1 Reactivity: Not reactive under normal conditions

10.2 Chemical Stability: Stable.

10.3 Possibility of Hazardous Reactions: None known.

10.4 Conditions to Avoid: Avoid humidity or high heat.

10.5 Incompatible Materials: Incompatible with strong oxidizing agents, reducing agents, acids, lithium and bromine trifluoride.

10.6 Hazardous Decomposition Products: Oxides of carbon, nitrogen and sulfur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: Dust may cause irritation with redness and tearing.

Skin contact: Prolonged skin contact may cause irritation.

Inhalation: Excessive inhalation of dust may cause upper respiratory tract irritation.

Ingestion: Swallowing may cause gastrointestinal effects including nausea and diarrhea

Acute toxicity:

Acid Blue 9, Disodium Salt: Oral rat LD50 >2000 mg/kg

Skin corrosion/irritation: No data available. Prolonged skin contact may cause irritation.

Eye damage/ irritation: No data available. Dust may cause irritation.

Respiratory Irritation: No data available. Expected to cause only temporary irritation.

Respiratory Sensitization: No data available.

Skin Sensitization: No data available. Not expected to cause skin sensitization.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: No data available. None of the components of this product are listed as carcinogens by IARC or the EU Dangerous Substances Directive.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Acid Blue 9, Disodium Salt: 96 hr *Lepomis macrochirus* (Bluegill) >96 mg/L; 48 hr EC50 *daphnia magna* >97 mg/L

12.2 Persistence and degradability: No data available. Expected to be biodegradable.

12.3 Bioaccumulative Potential: No data available. Not expected to be bioaccumulative.

12.4 Mobility in Soil: This product is expected to be mobile in soil.

12.5 Results of PBT and vPvB assessment: Not required.

12.6 Other Adverse Effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with local/ and national regulations. Not considered hazardous waste according to EU regulations.

SECTION 14: TRANSPORTATION INFORMATION

| | 14.1 UN Number | 14.2 UN Proper Shipping Name | 14.3 Hazard Class(s) | 14.4 Packing Group | 14.5 Environmental Hazards |
|---------------------|----------------|------------------------------|----------------------|--------------------|----------------------------|
| US DOT | None | Not Regulated | | | |
| Canadian TDG | None | Not Regulated | | | |
| EU ADR/RID | None | Not Regulated | | | |
| IMDG | None | Not Regulated | | | |
| IATA/ICAO | None | Not Regulated | | | |

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not determined.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

US Regulations

CERCLA Section 103: This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

SARA Hazard Category (311/312): Not hazardous

SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Canada:

Canadian WHMIS Classification: Not a controlled product

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

International Chemical Inventories

US EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory or exempt.

Australia: All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

China: All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

Japan: All of the components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) inventory or exempt.

Korea: All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

New Zealand: All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

Philippines: All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

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| SECTION 16: OTHER INFORMATION |
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EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

None.

CLP/GHS Classification and H Phrases for Reference (See Section 3)

None.

This safety data sheet provides health and safety information. The product is to be used in applications consistent with best farming practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information data sheet is to the best of Floratine's knowledge correct as at the date of publication. Neither Floratine, importer or local supplier accepts liability for any loss or damage resulting from reliance on this information. Further information on this product may be obtained from the supplier whose name, address and telephone number will be found on the product container. The information provided herein is offered solely for your consideration, investigation and verification. This information herein is provided by Floratine in good faith as accurate at the time of writing but without guarantee. This information includes information which has been generated by other parties and provided to Floratine and which Floratine has not independently verified. The information provided herein relates only to the specific product designated and may not be valid if the product is used in combination with any other materials or in any process