



Rooted in Science

SAFETY DATA SHEET

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

1.1 Product Identifier

Trade Name Propel-K 0-0-8

SDS Date February 28, 2023

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

Product Use: Soil Amendment

Uses Advised Against: To be used only where there is a recognized need. Do not exceed the appropriate dose rates.

1.3 Details of the Supplier of the Substance or Mixture

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

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):

Eye Irritation Category 2

EU Classification (67/548/EEC : Not a dangerous preparation.

2.2 Label Elements

Danger!



Contains : Blend Di-sulfosuccinate Surfactants

Hazard Phrases :

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Cause eye irritation
 H361d Suspected of damaging the unborn child.

Precautionary Phrases:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves, eye protection and face protection.
 P302+P353 IF ON SKIN: Wash with soap and water.
 P332+P313 IF skin irritation occurs: Get medical attention.
 P262+P364 Remove immediately all contaminated clothing and wash it before reuse.
 P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or physician.
 P308 + P313 IF exposed or concerned: Get medical attention.
 P405 Store locked up.
 501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number / EINECS Number / REACH Reg. Number | % (w/w) | CLP/GHS Classification (1272/2008) |
|--|--|---------|---|
| Proprietary blend of Di-sulfosuccinate Surfactants | Mixture | <3% | Skin Irri. 2 (H315) Eye Dam 1 (H318) |
| Humic Acid, Sodium salts | 68131-04-4/268-608-0 | 15-30% | Eye Irri. 2 (H319) |
| Potassium Sulfate | 7778-80-5/ 231-915-5 | 15-20% | Not Hazardous |

See Section 16 for full text of GHS.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First Aid

Eye contact: Immediately flush eye with water for at least 15 minutes while lifting the upper and lower lids. Seek medical attention.

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

Inhalation: Remove victim to fresh air. Get medical attention if irritation develops or 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 or 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: Causes eye irritation. Prolonged skin contact may cause 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 media appropriate for the surrounding fire. Cool fire exposed containers with water.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None

Combustion Products: Carbon and sulfur oxides.

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 spills as required by local and national regulations.

6.3 Methods and Material for Containment and Cleaning Up:

Collect with an inert absorbent material and place in an appropriate container for disposal. Wash spill site with water. Contain large spills and collect as much liquid as possible into containers for use.

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 from freezing. 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: Soil Amendment

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| SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION |
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8.1 Control Parameters:

| Chemical Name | US OEL | EU IOEL | UK OEL | Biological Limit Value |
|-------------------------------|---|------------------|----------------------------|------------------------|
| Di-sulfosuccinate Surfactants | None Established | None Established | None Established | None Established |
| 2-Methyl-2, 4-Pentenediol | 25 ppm TWA ACGIH TLV vapor fraction 50 ppm STEL ACGIH TLV vapor fraction, 10 mg/m3 STEL ACGIH TLV Inhalable aerosol | None Established | 25 ppm TWA 123 ppm STEL | None Established |
| Humic Acid | None Established | None Established | None Established | None Established |
| Potassium Sulfate | 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 Measurers

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 mists are irritating, an approved organic vapor 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.

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| SECTION 9: PHYSICAL and CHEMICAL PROPERTIES |
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9.1 Information on basic Physical and Chemical Properties

Appearance: Black liquid

Odor Threshold: Not applicable

Melting/Freezing Point: Not determined

Flash Point: Not flammable

Lower Flammability Limit: Not applicable

Upper Flammability Limit: Not applicable

Vapor Density (Air=1): Not available

Solubility: Complete

Autoignition Temperature: None

Viscosity: Not determined

Oxidizing Properties: None

Molecular Formula: Mixture

Odor: Slight ammonia odor

pH: 8.90

Boiling Point: 104°C

Evaporation Rate: Not available

Vapor Pressure: Greater than 1

Relative Density: 1.088

Octanol/Water Partition Coefficient: Not determined

Decomposition Temperature: Not determined

Explosive Properties: None

Specific Gravity (H₂O= 1): 1.002

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: None known.

10.5 Incompatible Materials: Incompatible with oxidizing agents.

10.6 Hazardous Decomposition Products: Decomposition may produce carbon and sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects:****Potential Health Effects:**

Eye Contact: Causes irritation with redness, tearing and stinging. Eye damage may occur.

Skin contact: Prolonged skin contact may cause irritation.

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

Ingestion: Swallowing may cause gastrointestinal effects including nausea and diarrhea

Acute toxicity: No acute toxicity data are available for the product.

Proprietary blend of Di-sulfosuccinate Surfactants: Oral rat LD50 >3000 mg/kg, Dermal rabbit LD50 >10,000 mg/kg.

Skin corrosion/irritation: Proprietary blend of Di-sulfosuccinate Surfactants is irritating to rabbit skin.

Eye damage/ irritation: Proprietary blend of Di-sulfosuccinate Surfactants causes irreversible damage to rabbit eyes.

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

Respiratory Sensitization: No data available

Skin Sensitization: Proprietary blend of Di-sulfosuccinate Surfactants was negative in human patch tests.

Germ Cell Mutagenicity: Proprietary blend of Di-sulfosuccinate Surfactants was negative in the AMES test and ambiguous in an in vitro mammalian chromosome aberration test.

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: Proprietary blend of Di-sulfosuccinate Surfactants: In a three generational oral study, rats were administered Proprietary blend of Di-sulfosuccinate Surfactants in their diet. No reproductive or developmental effects were seen. NOEL is a 1% Proprietary blend of Di-sulfosuccinate Surfactants.

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeat Exposure: No data available.

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| SECTION 12: ECOLOGICAL INFORMATION |
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12.1 Toxicity: No toxicity data is available for the product.

Proprietary blend of Di-sulfosuccinate Surfactants: 96 hr. Danio rerio 49 mg/L, 48 hr EC50 daphnia magna 6.6 mg/L, 72 hr EC50 Desmodesmus subspicatus 22 mg/L

12.2 Persistence and degradability: Proprietary blend of Di-sulfosuccinate Surfactants is readily biodegradable (91.1% in 28 days).

12.3 Bio accumulative Potential: The BCF for Proprietary blend of Di-sulfosuccinate Surfactants is estimated to be 1.9.

12.4 Mobility in Soil: In the soil, product follows natural cycle to provide plant nutrients.

12.5 Results of PVT and vPvB assessment: Not required.

12.6 Other Adverse Effects: No data available.

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| SECTION 13: DISPOSAL CONSIDERATIONS |
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13.1 Waste Treatment Methods:

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

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| SECTION 14: TRANSPORTATION INFORMATION |
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| | 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 | | | |

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.

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| SECTION 15: REGULATORY INFORMATION |
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15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

US Regulations

CERCLA Section 103: The normal application of fertilizers is exempt from CERCLA reporting. If an accidental release occurs, contact Floratine Products Group for information.

SARA Hazard Category (311/312): Acute Health Hazard

SARA 313: Products used in routine agricultural operations and fertilizers held for resale by retailers is excluded from SARA 313 reporting. Contact Floratine Products Group for additional information.

California Proposition 65: This product contains the following substances known to the State of California to cause cancer and/or reproductive harm (birth defects): None

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.

SECTION 16: OTHER INFORMATION

Date: February 14, 2023

Revision History: Format change for Regulation (EC) 2020/878 update: Changes to all sections.

Date of Previous SDS: February 14, 2023

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

Eye Dam 1 Eye Damage Category 1

Eye Irri. 2 Eye Irritation Category 2

Repro. Tox. 2 Reproductive Toxicity Category 2

Skin Irri 2 Skin Irritation Category 2

Skin Irri 2 Skin Irritation Category 2

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H661(d) Suspected of damaging the unborn child.

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.