



*Rooted in Science*

## SAFETY DATA SHEET

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

#### 1.1 Product Identifier

**Trade Name** Perk Up

**SDS Date** March 30, 2017

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

**Product Use:** Foliar Nutrient

**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](mailto:cs@floratine.com)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the Substance or Mixture

**CLP/GHS Classification (1272/2008):**

Eye Damage Category 1

**EU Classification (67/548/EEC):** Irritant Xi R41

#### 2.2 Label Elements

**Danger!**



Contains Calcium Salt

**Hazard Phrases**

H318 Causes serious eye damage.

## Precautionary Phrases

P280 Wear eye protection and face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

**2.3 Other Hazards:** None**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	% (w/w)	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)
Calcium Salt	Proprietary	30-50%	Xn, Xi R22, R41	Acute Tox 4 (H302) Eye Dam. 1 (H318)

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:** Immediately flush eye with water for at least 15 minutes while lifting the upper and lower lids. Get immediate 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 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. Immediately 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 severe eye irritation or damage. May cause skin irritation on prolonged or repeated use. Ingestion may cause gastrointestinal irritation with nausea and diarrhea.

**4.3 Indication of any immediate medical attention and special treatment needed:** If eye contact occurs, get immediate medical attention.

**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:

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. Store away from oxidizing materials.

### 7.3 Specific end use(s):

**Industrial uses:** None identified

**Professional uses:** Foliar Nutrient

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters:

Chemical Name	US OEL	EU IOEL	UK OEL	Biological Limit Value
Calcium 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 to prevent 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 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 brown liquid  
**Odor Threshold:** Not available  
**Melting/Freezing Point:** Not available  
**Flash Point:** None  
**Lower Flammability Limit:** None  
**Upper Flammability Limit:** None  
**Vapor Density(Air=1):** Not available  
**Solubility:** Complete  
**Autoignition Temperature:** None  
**Viscosity:** Not established  
**Oxidizing Properties:** None  
**Molecular Formula:** Mixture

**Odor:** Slightly Ammonia odor.  
**pH:** 6.10  
**Boiling Point:** 100°C  
**Evaporation Rate:** Not determined  
**Vapor Pressure:** > 1

**Relative Density:** 1.37  
**Octanol/Water Partition Coefficient:** Not established  
**Decomposition Temperature:** Not applicable  
**Explosive Properties:** None  
**Specific Gravity (H<sub>2</sub>O= 1):** 1.37  
**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 freezing.

**10.5 Incompatible Materials:** Incompatible with oxidizing agents.

**10.6 Hazardous Decomposition Products:** Decomposition may produce oxides of carbon and calcium.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

#### Potential Health Effects:

**Eye Contact:** Causes irritation with redness and tearing. 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, diarrhea and stomach discomfort.

**Acute toxicity:** No acute toxicity data available for the product. Calculated ATE for the mixture: Oral 2945 mg/kg  
 Calcium salt: Oral rat LD50 1000 mg/kg

**Skin corrosion/irritation:** No data available. Calcium salt is not irritating to rabbit skin.

**Eye damage/ irritation:** Calcium salt cause irreversible damage in rabbit eyes.

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

**Respiratory Sensitization:** No data available

**Skin Sensitization:** Calcium salt was negative in a mouse local lymph node assay (based on structurally similar chemicals).

**Germ Cell Mutagenicity:** Calcium salt was negative in the AMES test, in vitro mammalian chromosome aberration test and an in vitro mammalian cell gene mutation assay (based on structurally similar chemicals)

**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. Not expected to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity:**

Single Exposure: No data available

Repeat Exposure: No data available

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity:** No data available

Calcium salt: 96 hr LC50 *Oncorhynchus mykiss* >98.9 mg/L; 48 hr EC50 *daphnia magna* 490 mg/kg (based on structurally similar chemical)

**12.2 Persistence and degradability:** Biodegradation is not applicable to inorganic substances such as calcium salt.

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

**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.

## 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			

**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

**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 known.

**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.

<b>SECTION 16: OTHER INFORMATION</b>
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**CLP/GHS Classification and H Phrases for Reference (See Section 3)**

Acute Tox 4 Acute Toxicity Category 4

Eye Dam 1 Eye Damage Category 1

H302 Harmful if swallowed.

H318 Causes serious eye damage.

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