

# SAFETY DATA SHEET

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

1.1 Product Identifier

Trade Name Free 15

**SDS Date** May 25, 2021

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 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):

Eye Damage Category 1 Skin Irritation Category 2

# 2.2 Label Elements

### Danger!



Contains Organic Acids

Hazard Phrases

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary Phrases:

P280 Wear eye protection, face protection and protective gloves.

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.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

#### 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)
Organic Acids	Proprietary	<5	Xn, C R20, R34	Acute Tox. 4 (H332) Skin Corr. 1B (H314)
Citric Acid	77-92-9 / 201-069-1	<10%	Xi R36	Eye Irrit. 2 (H319)

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: In case of contact with eyes, flush immediately 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 or persists.

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

**Ingestion:** Do not induce vomiting unless directed to do so my 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 my 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. Causes skin irritation. Swallowing may cause nausea or diarrhea.
- **4.3 Indication of any immediate medical attention and special treatment needed**: If eye contact occurs, get immediate medial attention.

# **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:** Oxides of carbon.

**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:

Prevent contact with eyes. Avoid contact with skin and clothing. 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 handing.

### 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

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control Parameters:

Chemical Name	US OEL	EU IOEL	UK OEL	Biological Limit Value
Organic Acid	None Established	None Established	None Established	None Established
Citric Acid	None Established	None Established	None Established	None Established

# 8.2 Exposure Controls:

Recommended Monitoring Procedures: None established.

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

### **Personal Protective Measurers**

Eye/face Protection: Chemical goggles recommended to prevent eye contact.

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

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

Respiratory Protection: None needed under normal use conditions with adequate ventilation. If mists are excessive, 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:** Moist grayish black granules Odor: No odor. Odor Threshold: Not available

Melting/Freezing Point: 286°C Boiling Point: not applicable Flash Point: Not flammable Evaporation Rate: Not applicable Lower Flammability Limit: Not applicable Vapor Pressure: Not applicable

Upper Flammability Limit: Not applicable Vapor Density(Air=1): Not applicable

Solubility: Complete

Autoignition Temperature: None

Viscosity: Not applicable Oxidizing Properties: None Molecular Formula: Mixture

pH: Not available

Relative Density: 1.635

Octanol/Water Partition Coefficient: Not determined

**Decomposition Temperature:** Not determined

**Explosive Properties: None** Specific Gravity (H<sub>2</sub>O= 1): 1.635 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 excessive heat and freezing.

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

10.6 Hazardous Decomposition Products: Decomposition may produce carbon monoxide and carbon dioxide.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1 Information on Toxicological Effects:

### **Potential Health Effects:**

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

Skin contact: Causes kin irritation.

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

**Ingestion:** Swallowing may cause gastrointestinal effects including nausea and diarrhea.

Acute toxicity: No acute toxicity data available for the product. Calculated ATE for the mixture: Inhalation 100

mg/L/4 hr.

Organic acid: Oral rat LD50 2040 mg/kg; Inhalation rat LC50 3.2 mg/L/4 hr.

Citric Acid: Oral rat LD50 3,000 mg/kg,

Skin corrosion/irritation: Organic acid is corrosive to rabbit skin. Citric acid is not irritating to rabbit skin.

**Eye damage/ irritation:** Organic acid has been shown to cause eye damage in rabbit eyes. Citric acid is irritating to rabbits eyes.

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

Respiratory Sensitization: No data available.

Skin Sensitization: Organic acid was negative in the Buehler test for skin sensitization.

**Germ Cell Mutagenicity:** Citric acid was negative in the Ames test and in human and hamster cell culture assays. Organic acid was negative in an in vitro mammalian cell gene mutation assay, AMES test and in an in vivo mammalian erythrocyte micronucleus 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:** Zinc sulfate was administered to mice at days 6-15 of gestation. No maternal or developmental toxicity was observed at the highest dosage. NOEAL 30 mg/kg.

# **Specific Target Organ Toxicity:**

Single Exposure: No data available.

Repeat Exposure: No data available.

#### **SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity:** No toxicity data available for the product.

Organic acid: 96 hr LC50 Pimephales promelas164 mg/L; 48 hr EC50 daphnia magna 141 mg/L; 72 hr EC50

Pseudokirchnerella subcapitata 44 mg/L

Citric Acid: 96 hr golden orfe 440 mg/L, 48 hr saltwater crab160 mg/l

- 12.2 Persistence and degradability: Citric acid and organic acid are readily biodegradable
- **12.3** Bioaccumulative Potential: The calculated BCF for citric acid and organic acid is estimated to be 3.2.
- **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			
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:** 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

# Canada:

Canadian WHMIS Classification: Class D2, Subdivision B

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.

### **EU Regulations:**

This product is sold as an EC Fertilizer in accordance with Directive 2003/2003.

### **International Chemical Inventories**

**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.

### **SECTION 16: OTHER INFORMATION**

#### EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

C Corrosive Xi Irritant

Xn Harmful

R20 Harmful if inhaled.

R36 Irritating to eyes.

R34 Causes burns.

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

Acute Tox. 4 Acute Toxicity Category 4 Skin Corr. 1B Skin Corrosion Category 1B

Eye Irrit. 2 Eye Irritation Category 2

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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