SAFETY DATA SHEET

Flo-Thru Plus

Category 4

Category 2A

Category 2

Category 3 respiratory tract irritation Category 2

1. Identification

Product identifier Flo-Thru Plus Product code FLOTHR Recommended use Turf & Horticulture Recommended restrictions None known. Manufacturer/Importer/Supplier/Distributor information

Company name Plant Food Company, Inc.

Address 38 Hightstown-Cranbury Station Road

Cranbury, NJ 08512 United States

1-609-448-0935 Telephone Corporate Office

plantfoodco.com Website E-mail pfc@plantfoodco.com Contact person Grant Platz, Ted Platz

www.plantfoodco.com

EH&S / Regulatory Department

Emergency phone number 1-800-424-9300 CCN725928 or +1 703-527-3887 (collect calls accepted)

Call CHEMTREC Day or Night Within USA and Canada

Other Countries 1-609-448-0935

2. Hazard(s) identification

Physical hazards Flamable Liquid Health hazards Acute toxicity, oral

Serious eye damage/eye irritation

Specific target organ toxicity, single exposure

Hazardous to the aquatic environment, acute hazard

Environmental hazards

OSHA defined hazards Label elements

Label elements

Not classified.



Warning Signal word Flamable Liquid Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Hazard statement **Precautionary statement**

Prevention Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly

after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air

> and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Storage Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise None known.

classified (HNOC)

Supplemental information

3. Composition/information on ingredients

Chemical name Common name and synonyms

CAS number CAS number % Ethanol 64-17-5 50-90

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

> POISON CENTER or doctor/physician if you feel unwell. Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion

Most important symptoms/effects, acute

and delayed

Skin contact

Irritation of eves and mucous membranes.

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and special treatment needed

Indication of immediate medical attention Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the

Do not use water jet as an extinguisher, as this will spread the fire. During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

chemical

Special protective equipment and

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

precautions for firefighters Fire-fighting equipment/instructions Specific methods

Move containers from fire area if you can do so without risk. Move container from fire area if it can be done without risk. Move container from fire area if it can be done without risk.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Methods and materials for containment and cleaning up

Keep people away from and upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling incompatibilities

Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate Conditions for safe storage, including any Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits **Biological limit values**

No exposure limits noted for ingredient(s).

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s). Provide evewash station.

Individual protection measures, such as

personal protective equipment

Eye/face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin protection Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other

Wear suitable protective clothing.

Respiratory protection Thermal hazards

In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Appearance Aqueous solution.

Physical state Liquid. Form Liquid. Color Light blue. Odor Alcohol Odor threshold Not available. Ηα 3.9

Salt-Out / Crystallization Temp Not available. Melting point/freezing point Not available.

Initial boiling point and boiling range 165.2 - 176°F (74 - 80°C)

Flash point Not available. Not available. Evaporation rate Flammability (solid, gas) Not available. Upper/lower flammability or explosive Not available. limits

Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available Explosive limit - lower (%) Not available.

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Explosive limit - upper (%) Not available.

Vapor pressure 6.661 hPa @ 20° C (68 F°)

Vapor density Not available.
Relative density Not available.

Solubility(ies)

Solubility (water) 100%

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Other information

 Specific Gravity:
 7.044

 Pounds per gallon
 8.8 lb/gal

 Shelf life
 >2 years

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

 Chemical stability
 Material is stable under normal conditions.

 Possibility of hazardous reactions
 Hazardous polymerization does not occur.

 Conditions to avoid
 Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation May cause irritation to the respiratory system. May cause damage to organs by inhalation.

Skin contact Not available.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, Direct contact with eyes may cause temporary irritation.

chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause respiratory irritation.

 Components
 Species
 Test Results

 Ethanol
 64-17-5
 5

 LD50 Dermal
 Rabbit
 2000 mg/kg

 LD50 Oral
 Rat
 2000 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.
Skin sensitization Not available.
Germ cell mutagenicity Not Classified

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed. Not listed. Reproductive toxicity Not available.

Specific target organ toxicity - single Respiratory tract irritation.

exposure

Specific target organ toxicity - repeated Not available.

exposure

Aspiration hazard Not available.

12. Ecological information

 Ecotoxicity
 Toxic to aquatic life.

 Product
 Species
 Test Results

 Ethanol
 64-17-5
 Toustacea (water flea)
 >100 mng/l, 48 hrs

 Fish
 LC50
 Fish
 >100 mng/l, 96 hrs

* Estimates for product may be based on additional component data not shown.

Persistence and degradability This material is biodegradable
Bioaccumulative potential Not expectred to bioaccumulate

Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption,

global warming potential) are expected from this component.

13. Disposal considerations

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Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be

disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,

waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and Waste from residues / unused products

its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may Contaminated packaging

retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT Not regulated as dangerous goods

UN Number: UN1170

UN Proper Shipping Name: Not regulated as dangerous goods.

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Transport Hazard Class: Subsidiary Hazard Class(es):

Packaging Group: Ш

Special Precautions/Provisions: 49CFR Parts 100-185, Emergency Response Guidebook #127

Not listed

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification Not regulated.

(40 CFR 707, Subpt. D)

CERCLA Hazardous Substance List (40

CFR 302.4)

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances Not listed.

(29 CFR 1910.1001-1050)

49CFR Parts 100-185

DOT: Immediate Hazard - Yes Hazard categories

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous

substance

SARA 311/312 Hazardous chemical Yes SARA 313 (TRI reporting) No

16. Other information, including date of preparation or last revision

Issue date 6/1/2015 2/27/2015 Revision date

Version #

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only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the

information given or results obtained, all such being given and accepted at your risk.

Composition / Information on Ingredients: Ingredients **Revision Information**

Physical & Chemical Properties: Multiple Properties