

# **Safety Data Sheet**

Preparation Date 11-Aug-2017 Revision date 02-Jan-2019 Revision Number: 3

# 1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Description: StartUP FLUDI Seed Treatment

Other means of identification

Product code 12U-GGU Registration number(s) 70506-334

Recommended use of the chemical and restrictions on use

Recommended use

Solution for seed treatment.

Uses advised against

Non labeled activities

**Details of the Supplier of the Safety Data Sheet** 

**Supplier Address** 

UPL NA Inc.

630 Freedom Business Center

Suite 402

King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 673-6671 (24hrs)

# 2. Hazards Identification

# Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4

#### Label elements

# **EMERGENCY OVERVIEW**

### WARNING

#### **Hazard Statements**

Harmful in contact with skin HARMFUL IF INHALED



Appearance Viscous Physical state Liquid Odor No characterisitic odor

**Precautionary Statements - Prevention** 

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Wear protective gloves/protective clothing/eye protection/face protection Do not get in eyes, on skin, or on clothing Use only outdoors or in a well-ventilated area

IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor if you feel unwell
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)
OTHER INFORMATION

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Fludioxonil	131341-86-1	40

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. First aid measures

### **FIRST AID MEASURES**

**Eye contact** If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a

poison control center or doctor for treatment advice.

**Skin contact**Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

**Inhalation** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or

doctor for further treatment advice.

**Ingestion** Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical advice.

# Most Important Symptoms and Effects, Both Acute and Delayed

**Most Important Symptoms and** 

**Effects** 

no data available.

# Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

# 5. Fire-fighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media no data available.

#### Specific hazards arising from the chemical

No information available.

#### **Explosion data**

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use personal protective equipment. Wash thoroughly **Personal Precautions** 

after handling.

**Environmental Precautions** 

Consult a regulatory specialist to determine appropriate state or local reporting **Environmental precautions** 

requirements, for assistance in waste characterization and/or hazardous waste disposal

and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, **Methods for Clean-Up** 

sawdust). Sweep up and shovel into suitable containers for disposal.

# 7. Handling and Storage

## Precautions for safe handling

Handling Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and

clothing. Wear personal protective equipment. Keep out of reach of children. Provide adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated

clothing before re-use.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Storage

Do not mix or allow contact with oxidizing agents as a hazardous chemical reaction may incompatible materials

occur.

# 8. Exposure Controls/Personal Protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure guidelines** 

established by the region specific regulatory bodies.

Investigate engineering techniques to reduce exposures. Local mechanical exhaust **Engineering controls** 

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

**Eye/Face Protection** 

Skin protection

Respiratory protection

Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. If splashes are likely to occur, wear:. Goggles.

Chemical resistant gloves. Chemical resistant footwear plus socks. Coveralls.

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is

recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved

full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

No characterisitic odor

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

# 9. Physical and Chemical Properties

Odor

Pensky Martin Closed Cup

#### Information on basic physical and chemical properties

Physical state Liquid Viscous **Appearance** 

Off-white color

**Property** VALUES Remarks/ • Method 7.3 Approximately

Melting point/freezing point no data available **Boiling Point/Range** No information available

Flash Point > 102 °C / > 215.6 °F **Evaporation Rate** No information available No information available Flammability (solid, gas)

Flammability limit in air

**Upper Flammability Limit** No information available Lower Flammability Limit No information available vapor pressure No information available **Vapor Density** No information available Specific gravity 1.19 g/ml @ 20 C Miscible with water Water solubility Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** no data available

**Decomposition temperature** No information available Viscosity, kinematic No information available Dynamic viscosity 230.9 cP @ 20 C No information available

**Explosive properties Oxidizing properties** No information available

## OTHER INFORMATION

No information available Softening point molecular weight No information available **VOC Content** No information available

**Liquid Density** 10 lb/gal

# 10. Stability and Reactivity

#### Reactivity

None known

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

# incompatible materials

Do not mix or allow contact with oxidizing agents as a hazardous chemical reaction may occur.

### **Hazardous decomposition products**

Hydrogen chloride. Carbon oxides. Nitrogen oxides (NOx).

# 11. Toxicological Information

# Information on Likely Routes of Exposure

**Product information** 

StartUP FLUDI

Acute Oral LD50 = >5,000 mg/kg Acure dermal LD50 = >2,000 mg/kg Acute inhalation LC50 (4hr) = > 5.636 mg/L

**Inhalation** May cause irritation of respiratory tract. Harmful by inhalation.

**Eye contact** Contact with eyes may cause irritation.

**Skin contact** Substance may cause slight skin irritation.

Ingestion MAY BE HARMFUL IF SWALLOWED.

# Information on Toxicological Effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** Did not cause sensitization.

Mutagenic effects no data available.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration hazard
Not Available.
no data available.
No information available.

#### Numerical Measures of Toxicity - Product information

 LD50 Oral
 > 5000 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rat)

 LC50 Inhalation
 > 22 mg/l (rat) (1 hr)

# 12. Ecological Information

#### ecotoxicity

Fludioxonil

Fish - Rainbow trout 96 hr LC50 = 0.47 ppm Green Algae 5 day EC50 = 0.087 ppm Invertebrate Daphnia magna 48 hr EC50 = 0.9 ppm Bird Bobwhite quail 14 day LD50 = >2000 mg/kg

#### Persistence/Degradability

no data available.

## **Bioaccumulation/ Accumulation**

Does not bioaccumulate.

## **Other Adverse Effects**

no data available

# 13. Disposal Considerations

**Waste Treatment Methods** 

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is

a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the

Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging Refer to product label.

14. Transport Information

**DOT**When shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

When shipped in bulk, by vessel, or internationally use the IMDG shipping description:

TDG When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

<u>IATA</u>

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (fludioxonil)

Hazard class 9 Packing group PG III

**Description** IMDG - Marine Pollutant

**IMDG** 

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (fludioxonil)

Hazard class 9
Packing group PG III

Environmental hazards IMDG - Marine Pollutant

# 15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word CAUTION

Keep out of Reach of Children. Harmful if absorbed through the skin. Causes moderate eye irritation. Toxic to fish and aquatic inverebrates.

International Inventories

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

ELINCS

ENCS Not Present
China Not Present
KECL Not Present

PICCS Not Present Not Present TSCA Not Present Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **CERCLA**

Not applicable

### **CERCLA**

**RCRA** 

## **Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Fludioxonil 131341-86-1 ( 40 )			Х	

#### **State Regulations**

# State Right-to-Know

Not applicable

International regulations
U.S. EPA Label information

EPA Pesticide registration number 70506-334

## 16. Other Information

NFPA HEALTH 1 flammability 1 Instability 0 Physical hazard -

Preparation Date11-Aug-2017Revision date02-Jan-2019

**Revision Summary** 

Update logo Update section 1 Update Section 16\*\*\*

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**End of SDS**