

## **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: RACEREADY F 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** 

Meristem Crop Performance 489 Village Park Dr., Powell, OH 43065 833-637-4783

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** 

Revision date 02-Jan-2019

#### RACEREADY F SEED TREATMENT

\_\_\_\_\_\_

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

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

after handling.

**Environmental Precautions** 

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

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

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

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

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

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

occur.

## 8. Exposure Controls/Personal Protection

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

established by the region specific regulatory bodies.

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

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 Viscous

**color** Off-white

PropertyVALUESRemarks/ • MethodpH7.3Approximately

Melting point/freezing point no data available

Boiling Point/RangeNo information availableFlash Point> 102 °C / > 215.6 °FEvaporation RateNo information availableFlammability (solid, gas)No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
Vapor pressure
Vapor Density
Specific gravity
Solubility
In Other Solvents
Partition coefficient: n-octanol/water No information available
No information available
No information available
1.19 g/ml @ 20 C
Miscible with water
No information available

 Autoignition temperature
 no data available

 Decomposition temperature
 No information available

 Viscosity, kinematic
 No information available

 Dynamic viscosity
 230.9 cP @ 20 C

 Evaluation available
 No information available

 Dynamic viscosity
 No information available

**Explosive properties**No information available
Oxidizing properties
No information available

### **OTHER INFORMATION**

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo 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** 

Fludioxonil

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
AICS Not Present
TSCA 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 )			X	

#### **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



## **Safety Data Sheet**

Preparation Date 11-Apr-2016 Revision date 02-Jan-2019 Revision Number: 5

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

Product identifier

Product Description: RACEREADY F SEED TREATMENT-

Other means of identification

Product code ST-001 Registration number(s) 70506-325

Recommended use of the chemical and restrictions on use

Recommended use Fungicides.

Uses advised against Activities contrary to label recommendation

**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 light brown Physical state Liquid Odor faint

#### **Precautionary Statements - Prevention**

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

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

Dispose of contents/container to an approved waste disposal plant

## Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

· May be harmful in contact with skin

**Precautionary Statements - Disposal** 

## 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Metalaxyl	57837-19-1	28.98
Kaolinite, Hydrous Aluminum Silicate	1332-58-7	2.84

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 Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

**Skin contact**Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. 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

Personal Precautions Provide adequate ventilation. Avoid contact with skin and eyes. Remove all sources of

ignition.

**Environmental Precautions** 

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

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

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

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

## 7. Handling and Storage

#### Precautions for safe handling

**Handling** Wear personal protective equipment. Do not eat, drink or smoke when using this product.

Wash thoroughly after handling. Keep out of reach of children.

#### Conditions for safe storage, including any incompatibilities

Storage Store in an area where cross-contamination with pesticides, fertilizers, food or feed could

not occur. Keep in a dry, cool and well-ventilated place.

**incompatible materials** Incompatible with oxidizing agents. Strong acids, Strong bases,

## 8. Exposure Controls/Personal Protection

#### **Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL
Kaolinite, Hydrous Aluminum Silicate	TWA: 2 mg/m <sup>3</sup> particulate	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction
	matter containing no	(vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable
	asbestos and <1%	fraction
	crystalline silica, respirable	
	fraction	

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

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

of exhaust systems.

Personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Where there is potential for eye contact have eye flushing

equipment available. Use eye protection to avoid eye contact.

**Skin protection** Wear protective gloves/clothing. Chemical resistant gloves. Chemical resistant footwear

plus socks.

Respiratory protection 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

faint

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.

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

#### Information on basic physical and chemical properties

Physical state Liquid
Appearance light brown

**color** Tan

Property VALUES Remarks/ • Method

**pH** 7.7 (1% aq)

Melting point/freezing point no data available

Boiling Point/Range No information available

**Flash Point** >100 C/ >212 F **Evaporation Rate** No information available

Flammability (solid. gas)

No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
No information available
No information available

Specific gravity 1.094 g/cm3

Water solubility
Solubility in Other Solvents
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature
No information available
no data available

Decomposition temperature
Viscosity, kinematic
Dynamic viscosity
Explosive properties
Oxidizing properties

No information available
No information available
No information available
No information available

#### **OTHER INFORMATION**

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

**Liquid Density** 9.13 lb/gal

## 10. Stability and Reactivity

#### Reactivity

no data available

#### **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

Incompatible with oxidizing agents. Strong acids, Strong bases,

#### **Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx).

## 11. Toxicological Information

#### Information on Likely Routes of Exposure

Product information Metalaxyl 317 FS:

Oral LD50 (rat) >2,300 mg/kg Dermal LD50 (rabbit) >2,000 mg/kg Inhalation LC50 (rat) > 5.164 (4hr) mg/L

Moderate eye and skin irritation

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause slight irritation.

**Skin contact** May cause 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 No information available.

Mutagenic effects no data available.

**Carcinogenicity** The information below indicates whether any agency has listed any ingredient as a

carcinogen.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Not Available.
no data available.

Aspiration hazard No information available.

#### Numerical Measures of Toxicity - Product information

 LD50 Oral
 > 2300 mg/kg

 LD50 Dermal
 > 2000 mg/kg

 LC50 Inhalation
 > 20 mg/l

## 12. Ecological Information

## ecotoxicity

Metalaxyl FISH

Rainbow trout = 96 hr LC50 130-132 mg/L

AQUATIC INVERTEBRATES
Daphnia magna = LC50 28-121 mg/L

### Persistence/Degradability

no data available.

#### **Bioaccumulation/ Accumulation**

Bioaccumulative potential.

Chemical name	Log Pow
Metalaxyl 57837-19-1	log Pow <3

#### **Other Adverse Effects**

no data available

## 13. Disposal Considerations

**Waste Treatment Methods** 

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

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

NOT REGULATED

IATA

**NOT REGULATED** 

IMDG

**NOT REGULATED** 

## 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:

**CAUTION** signal word

Keep out of Reach of Children. Harmful if swallowed or absorbed through the skin.

**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 **AICS** 

TSCA 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** 

**State Regulations** 

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-325

## 16. Other Information

NFPA HEALTH 2 flammability 1 Instability 0 Physical hazard -

Preparation Date11-Apr-2016Revision date02-Jan-2019

Revision Summary



## **Safety Data Sheet**

Preparation Date 12-Jun-2017 Revision date 02-Jan-2019 Revision Number: 3

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

Product identifier

Product Description: RACEREADY F SEED TREATMENT

Other means of identification

 Product code
 RD-20170612C

 UN/ID no.
 UN3082

 Registration number(s)
 70506-341

Recommended use of the chemical and restrictions on use

Recommended use Solution for seed treatment.

Uses advised against Activities contrary to label recommendation

**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 (Gases)	Category 2
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2

#### Label elements

## **EMERGENCY OVERVIEW**

## DANGER

## **Hazard Statements**

Harmful in contact with skin Fatal if inhaled May cause an allergic skin reaction Suspected of causing genetic defects

\_\_\_\_\_\_



Appearance liquid

Physical state Liquid suspension

Odor no data available

## **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood Wear cold insulating gloves/face shield/eye protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention
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 skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician

#### **Precautionary Statements - Storage**

Store locked up

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

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

Dispose of contents/container to an approved waste disposal plant

# Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

- Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life

## 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Thiophanate-methyl	23564-05-8	46.2
1,2-Benziosothiazolin-3-one (Proxel	2634-33-5	0.024
GXL)		

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 Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Call a poison control

center or doctor for treatment advice.

**Inhalation** Move to fresh air in case of accidental inhalation of vapors or decomposition products. If

symptoms persist, call a physician. Immediate medical attention is required. Call a

physician or poison control center immediately. Toxic by inhalation.

**Ingestion** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Call a physician. Clean mouth with water and drink afterwards plenty

of water afterwards.

#### Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

no data available.

**Effects** 

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

## 5. Fire-fighting measures

#### Suitable extinguishing media

Carbon dioxide (CO2).

Use:. Dry chemical. Water spray. alcohol-resistant foam.

Unsuitable extinguishing media no data available.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion products No information available.

#### **Explosion data**

## Protective equipment and precautions for firefighters

Use personal protective equipment. 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

Personal Precautions Avoid contact with skin and eyes. Wear protective gloves/protective clothing and eye/face

protection. Wash thoroughly after handling.

**Environmental Precautions** 

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

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

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

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

## 7. Handling and Storage

## Precautions for safe handling

**Handling** Wear personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or

smoke when using this product. Keep out of reach of children. Wash thoroughly after

handling.

\_\_\_\_\_\_

#### Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep in a dry, cool and well-ventilated place.

incompatible materials Strong oxidizing agents.

## 8. Exposure Controls/Personal Protection

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

established by the region specific regulatory bodies.

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

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

of exhaust systems.

Personal protective equipment

Eye/Face Protection Use eye protection to avoid eye contact. Where there is potential for eye contact have eye

flushing equipment available. Safety glasses with side-shields.

**Skin protection** Wear protective gloves/clothing. Socks and footwear.

**Respiratory protection** 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.

#### General hygiene considerations

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

#### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state Liquid suspension

AppearanceliquidOdorno data available

**color** Off-white to Tan

Property VALUES Remarks/ • Method

pH 6 Approximately

Melting point/freezing point no data available

Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid, gas)
No information available
No information available
No information available
No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
No information available
No information available

Specific gravity 1.220

Water solubility

Solubility in Other Solvents

Partition coefficient: n-octanol/waterNo information available
Autoignition temperature

Decomposition temperature

Viscosity, kinematic

No information available
No information available
No information available

Dynamic viscosity 350-500 cps

**Explosive properties**No information available

\_\_\_\_\_\_

Oxidizing properties No information available

**OTHER INFORMATION** 

Softening point
Mo information available
No information available
No information available
No information available
Liquid Density
No information available

## 10. Stability and Reactivity

#### Reactivity

no data available

#### **Chemical stability**

Stable under normal conditions. Hazardous polymerisation does not occur.

#### Possibility of hazardous reactions

None under normal processing.

**Hazardous polymerization** Hazardous polymerisation does not occur.

#### Conditions to avoid

No information available.

#### incompatible materials

Strong oxidizing agents.

#### Hazardous decomposition products

Carbon oxides.

#### 11. Toxicological Information

## Information on Likely Routes of Exposure

**Product information**The toxicological data presented is for a formulated product with similar composition Single

exposure studies indicate:

Oral: Practically non-toxic to rats (LD50 >5,000 mg/kg)

Dermal: No more than slightly toxic to rabbits (LD50 >2,000 mg/kg)

Inhalation: SLightly toxic to rats (4 hr LC50 1.8 mg/l)

Skin Irritation: Non-irritating to rabbits Eve Irritation: Non-irritating to rabbits

Skin allergy was observed in guinea pigs following repeated exposure. Repeated or long-term oral administration produced effects on the thyroid, liver or kidneys in rats, mice and dogs. An increased incidence of liver tumors was observed in mice and thyroid tumors

were observed in male rats following long-term oral exposure.

No effects were seen on the ability of male or female rats to reproduce when exposed orally for 2 successive generations. No birth defects were observed in the offspring of rats exposed orally during pregnancy. In rabbits, developmental effects were noted only at maternally toxic doses. No genetic changes were observed in tests using animal cells.

Polyglycol

Repeated exposure of rats to aerosol of some block polymers produced an inflammatory response and slight fibrosis in the lung. Long-term dietary administration of a block polymer to dogs produced no adverse effects. Some block polymers have produced genetic

changes in tests using basteria or animal cells.

Single exposure studies indicate that this material is practically non-toxic if swallowed (mouse LD50 >15,000 mg/kg) or absorbed through skin (rabbit LD50 2,000 mg/kg) moderately toxic if inhaled (rat 4 hr LC50 0.1-0.34 mg/l) and practically non irritating to

rabbit eyes (10% aqueous solution).

Inhalation HARMFUL IF INHALED.

**Eve contact** May cause irritation.

**Skin contact** May be harmful if absorbed through the skin.

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 No information available.

Mutagenic effects no data available.

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

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Not Available.
no data available.
no data available.

**Chronic toxicity** Avoid repeated exposure. **Aspiration hazard** No information available.

#### Numerical Measures of Toxicity - Product information

### The following values are calculated based on chapter 3.1 of the GHS document .

 LD50 Oral
 5000 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rat)

 LC50 Inhalation
 Inhalation LC50 7.2 mg/l

## 12. Ecological Information

#### ecotoxicity

Thiophanate methyl
Carp 96 hr LC50 = >100 mg/L
Fiddler crab 96 hr LC50 = >560 mg/L
Bluegill 96 hr LC50 = 15.8 mg/L
Daphnid 48 hr EC50 = 15.6 mg/L
Shrimp 96 hr LC50 = 25.1 mg/L
Trout 96 hr LC50 - 2.2 mg/L
Oyster 96 hr LC50 = 4.6 ppm
Highly toxic to catfish

16.64% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence/Degradability

no data available.

#### **Bioaccumulation/ Accumulation**

Bioaccumulative potential.

Chemical name	Log Pow
1,2-Benziosothiazolin-3-one (Proxel GXL)	1.3
2634-33-5	

### **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

**<u>Poot</u>** Packages which contain an amount equal to or exceeding the RQ value of the technical

ingredient must be labeled with the following shipping description:

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Thiophanate methyl)

Hazard class 9
Packing group PG III

Reportable Quantity (RQ): 10 lbs (Thiophanate methyl)

IATA

UN/ID no. UN3082

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

Hazard class 9
Packing group PG III

<u>IMDG</u>

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Thiophanate-methyl)

Hazard class 9
Packing group PG III

Environmental hazards This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

## 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

**Ventilation Control** PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO

PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA

WORKER PROTECTION STANDARD 40 CFR PART 170.

Keep out of Reach of Children. Harmful if swallowed. Harmful if inhaled or absorbed through skin.

**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 **AICS** Not Present **TSCA** Not Present

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

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

0

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 contains a chemical or 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

Chemical name	RQ	CERCLA EHS RQs	RQ
Thiophanate-methyl	10 lb		RQ 10 lb final RQ RQ 4.54 kg final
23564-05-8			RQ

#### **CERCLA**

Component	RQ
Thiophanate-methyl	10 lb
23564-05-8 ( 46.2 )	

#### **SARA Product RQ**

#### **RCRA**

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Thiophanate-methyl			U409
23564-05-8 ( 46.2 )			

#### **Pesticide Information**

#### **State Regulations**

Component	California Prop. 65	Non-additive, corrosive chemical type
Thiophanate-methyl	Female Reproductive	Female Reproductive
23564-05-8 ( 46.2 )	Male Reproductive	Male Reproductive

#### State Right-to-Know

Not applicable

International regulations

**U.S. EPA Label information** 

EPA Pesticide registration number 70506-341

## 16. Other Information

**NFPA HEALTH** 3 flammability 0 Instability 0 Physical hazard -

**Preparation Date** 12-Jun-2017 **Revision date** 02-Jan-2019

**Revision Summary** 

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

\_\_\_\_\_

#### **Disclaimer**

UPL NA Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS** 

Page 23 / 23