

# **Safety Data Sheet**

Preparation Date 23-Apr-2015 Revision date 31-Dec-2018 Revision Number: 3

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

Product identifier

Product Description: Collide(TM) Herbicide

Other means of identification

 Product code
 12U-295

 UN/ID no.
 UN3082

 Registration number(s)
 70506-295

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

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

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)

Skin Corrosion/Irritation	Not classified
Serious eye damage/eye irritation	Category 2

# Label elements

### **EMERGENCY OVERVIEW**

#### Hazard Statements

Causes serious eye irritation



Appearance amber Physical state Liquid Odor Solvent-like

Hazards Not Otherwise Classified (HNOC)
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### 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Oxyfluorfen	42874-03-3	23

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** 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. Remove and wash

contaminated clothing before re-use.

**Inhalation** Move person to fresh air. If not breathing, give artificial respiration. Call a physician or

poison control center immediately.

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** 

MAY CAUSE ALLERGIC SKIN REACTION.

# Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Probable mucosal damage may contraindicate the use of gastric lavage. Contains a

petroleum distillate - vomiting may cause aspiration pneumonia.

# 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.

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 Use personal protective equipment. Avoid contact with skin and eyes. Provide adequate

ventilation. Remove all sources of ignition. Wash thoroughly after handling.

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**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

**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. Soak up with inert

absorbent material. Prevent product from entering drains.

7. Handling and Storage

Precautions for safe handling

Handling Keep from freezing. Keep out of reach of children. Do not eat, drink or smoke when using

this product. Remove all sources of ignition. Provide adequate ventilation. Avoid contact

with skin and eyes. Wear personal protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and Storage

well-ventilated place. Keep out of the reach of children. Store in an area where

cross-contamination with pesticides, fertilizers, food or feed could not occur. Keep from

freezing. Keep containers tightly closed in a cool, well-ventilated place.

incompatible materials OXIDIZERS, Acids, Alkaline.

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** 

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 protective clothing.

Skin protection Where airborne exposure is likely, use NIOSH approved respiratory protection equipment Respiratory protection

> 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 and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid

Solvent-like

\_\_\_\_\_

Odor

Remarks/ • Method

**Appearance** amber

color No information available

<u>Property</u> <u>VALUES</u>

**pH** No information available

Melting point/freezing pointno data availableBoiling Point/RangeNo information availableFlash Point> 160 f °C / > 320 °FEvaporation RateNo information availableFlammability (solid, gas)No information available

Flammability limit in air

Upper Flammability Limit 7%
Lower Flammability Limit 0.8%

vapor pressure No information available **Vapor Density** No information available Specific gravity No information available Water solubility No information available Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** no data available No information available **Decomposition temperature** Viscosity, kinematic No information available **Dynamic viscosity** No information available **Explosive properties** No information available

OTHER INFORMATION

**Oxidizing properties** 

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availableLiquid DensityNo information available

# 10. Stability and Reactivity

No information available

#### 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

OXIDIZERS, Acids, Alkaline.

#### Hazardous decomposition products

Nitrogen oxides (NOx), Phosgene gas, Oxides of nitrogen.

# 11. Toxicological Information

# Information on Likely Routes of Exposure

**Product information** oxyfluorfen formulation(23%):

Acute oral LD50 (rat) = >2,985 - 4,594mg/kg Acute dermal LD50 (rat) = >4,000 mg/kg

Acute inhalation LC50 (Rat) = >4.8 mg/l (4 HR)

Eye irritation (rabbit)= severely irritating Dermal irritation (rabbbit) = moderately irritating Dermal sensisitzation = not a skin sensitizer

**Inhalation** Vapors may irritate throat and respiratory system.

**Eye contact** Moderately irritating to the eyes.

**Skin contact** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion 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
Aspiration hazard
Not Available.
no data available.
No information available.

### Numerical Measures of Toxicity - Product information

 LD50 Oral
 > 2985 mg/kg (rat)

 LD50 Dermal
 > 4000 mg/kg (rat)

 LC50 Inhalation
 > 4.8 mg/l (rat) (4-hr)

# 12. Ecological Information

Marine Pollutant.

#### ecotoxicity

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or areable land. Do not apply when weather conditions favor drift from treated areas.

#### Persistence/Degradability

no data available.

### **Bioaccumulation/ Accumulation**

No information available.

#### **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** Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR

171.4

UN/ID no. UN3082

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

Hazard class 9
Packing group PG III

**IMDG - Marine Pollutant** Marine Pollutant.

**ICAO** 

UN/ID no. UN3082

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

Hazard class 9
Packing group PG III

IATA

UN/ID no. UN3082

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

Hazard class 9
Packing group PG III

**Description** Marine pollutant

<u>IMDG</u>

**UN/ID no.** UN3082

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

Hazard class 9
Packing group PG III

Environmental hazards 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 WARNING

**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 absorbed through the skin. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Causes moderate eye irritation.

**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
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 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

CERCLA

SARA Product RQ 0

**RCRA** 

**Pesticide Information** 

**State Regulations** 

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-295

# 16. Other Information

NFPA HEALTH 1 flammability 1 Instability 0 Physical hazard -

Preparation Date 23-Apr-2015
Revision date 31-Dec-2018
Revision Summary

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

### **Disclaimer**

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**End of SDS** 

12U-295 Collide(TM) Herbicide	Revision date	31-Dec-2018