



United Phosphorus, Inc.

NFPA	PPE	

Issued Date 19-Apr-2012

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Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

UPI
 630 Freedom Business Center
 Suite 402
 King of Prussia, PA 19406

Emergency Telephone Number
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
 Medical: Rocky Mountain Poison Control Center
 (866) 673-6671 (24hrs)

<u>Company Information</u>	<u>Contact Information</u>	<u>Phone Number</u>	<u>Available Hrs</u>
UPI	Customer Service	1-800-438-6071	8:00 am - 5:00 pm (EST)

Product Name Collide(TM) Herbicide
EPA Reg # 70506-295
Recommended Use herbicide
Product Code 12U-295

2. HAZARDS IDENTIFICATION

Emergency Overview		
Causes substantial eye irritation which will cause discomfort and is expected to be temporary Harmful if swallowed or absorbed through skin.		
WARNING!		
Appearance Amber.	Physical State Liquid.	Odor Solvent-like.

Potential Health Effects

Eyes Irritating to eyes. Irritation to the eyes is expected to be temporary.
Skin Irritating to skin. Excessive or prolonged exposure to skin can cause defatting and drying of the skin leading to irritation and dermatitis.
Inhalation Prolonged inhalation of concentrate vapor may cause headache, dizziness, nausea, and faintness. Inhalation may cause irritation of the nose, throat, and lungs with cough, difficulty breathing or shortness of breath.
Ingestion Can cause headache, dizziness, nausea, vomiting and cramps.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Oxyfluorfen	42874-03-3	23	N/A

4. 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 poison control center or doctor for treatment advice.
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 unless told to do so by a poison control center or doctor
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point

>
160
F

Autoignition Temperature

Not available

Flammability Limits in Air

Upper 7%
Lower 0.8%

Not available

Extnguishing Media

Dry chemical, Water spray, Carbon dioxide (CO2), Foam.

Fire/Explosion Hazard

In the event of fire and/or explosion do not breathe fumes

Hazardous Combustion Products

Thermal decomposition may form chloride, fluoride compounds and nitrogen oxides.

NFPA

Health 1

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes. Ensure adequate ventilation. Remove all sources of ignition. Wash thoroughly after handling.
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 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

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. Ensure adequate ventilation. Avoid contact with skin and eyes. Wear personal protective equipment.
Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and 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.

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	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.
Skin Protection	Chemical resistant protective clothing.
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 and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber	Odor	Solvent-like
Physical State	Liquid	pH	Between; 5-7
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	Not available	Solubility	Not available
Evaporation Rate	Not available	Vapor pressure	Not available
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	no data available
Bulk Density	no data available	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to Avoid	Heat, flames and sparks
Incompatible Materials	oxidizers, Acids, Alkaline
Hazardous Decomposition Products	Nitrogen oxides (NOx), Chloride fumes, Oxides of nitrogen
Possibility of Hazardous Polymerization	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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
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Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product.
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12. ECOLOGICAL INFORMATION

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 washwaters in a manner that will contaminate water resources or arable land. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water be cleaning equipment or disposal of waste. Toxic to fish and wildlife.

13. DISPOSAL CONSIDERATIONS

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 following shipping description:

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s (oxyfluorfen)
Hazard Class 9
UN-No UN3082
Packing Group PG III
Marine pollutant Marine pollutant.

ICAO

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s (oxyfluorfen)
Hazard Class 9
Packing Group PG III

IATA

UN-No UN3082
Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s. (Oxyfluorfen)
Hazard Class 9
Packing Group PG III
ERG Code 9 L
Description Marine pollutant

IMDG/IMO

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s. (oxyfluorfen)
Hazard Class 9
UN-No UN3082
Packing Group PG III
Marine pollutant Marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Oxyfluorfen				X			KE-05662	X

USA

Federal Regulations

12U-295
Collide(TM) Herbicide

SARA 313
Y

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Oxyfluorfen	42874-03-3	23	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Oxyfluorfen 42874-03-3 (23)			X	

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Oxyfluorfen		X			

International Regulations

Mexico - Grade Not available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Revision Date 23-Jul-2012

Revision Summary

Update product name

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End of MSDS