



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 17-Dec-2007

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Revision Number: 3

12U-146 - Poa Constrictor

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 R&D Technical Service	1-800-438-6071 610-878-6100	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

Product Name	Poa Constrictor
EPA Reg #	70506-107
Recommended Use	herbicide
Product Code	12U-146

2. HAZARDS IDENTIFICATION

Emergency Overview
May cause slight irritation to the eyes, skin and respiratory tract.

CAUTION		
Appearance Creamy, White.	Physical State Liquid.	Odor faint. Sulfur.

Potential Health Effects

Acute Effects Based on single exposure animal studies, it is considered to be slightly irritating to eyes and skin. Overexposure to mist or vapor may cause slight irritation to the upper respiratory tract and eyes. Repeated or prolonged skin contact may cause mild irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name	Chemical Name	CAS-No	Weight %	OSHA PEL

Ethylene glycol	107-21-1	8	N/A
Ethofumesate	26225-79-6	42	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 person is not breathing, call 911 or an ambulance, then give artificial respiration. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a physician or Poison Control Center immediately Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by a poison control center or doctor Never give anything by mouth to an unconscious person
Notes to Physician	No information available

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties			
Flash Point	Not applicable		
Autoignition Temperature	Not available		
Flammability Limits in Air	Not available		
Extnguishing Media	Dry powder, Foam Carbon dioxide (CO2) Water.		
Fire/Explosion Hazard	No information available		
Hazardous Combustion Products	No information available.		
NFPA	Health 1	Flammability 0	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes.
Environmental Precautions	Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil. . 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 out of reach of children. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

Storage Store in original container. . Store in cool/well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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. .

Skin Protection

Wear protective gloves/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. 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	Creamy White	Odor	faint Sulfur
Physical State	Liquid	pH	No data available
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	1.14 g/ml (for A.I.)	Solubility	110 mg/l (for A.I.)
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	Keep away from children.
Incompatible Materials	No materials to be especially mentioned.
Hazardous Decomposition Products	None under normal use
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Poa constrictor- Data provided below for similar formulation
 Oral LD50 (rat) = >2,100 mg/kg
 Dermal LD50 (rat) = > 4,100 mg/kg
 Eye = slight or negligible eye irritant

Chronic Toxicity**Carcinogenicity**

Ethofumesate: In two year feeding studies with animals, adverse effects were only observed at very high doses. These include, a reduced weight gain in males and increased liver weight in females (rats 5,000 ppm); an increase of liver weight in females (hamsters, 2,000 ppm); an increased liver weight in both males and females (dogs 20,000 ppm).

Reproductive and developmental toxicity: Demonstrated no adverse effects on reproduction in a three generation rat reproduction study.

Teratogenicity: No teratogenic effects were seen in rats at dose levels up to 8-0 mg/kg/day. In rabbits, no adverse effects of biological significance were observed at the low dose (30 mg/kg/day) slight embryolethal effects were noted at 300 mg/kg/day; severe maternal toxicity and moderate embryolethal effects were observed at the highest dose. .

12. ECOLOGICAL INFORMATION

Ecotoxicity

DO not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. .

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

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Ethylene glycol

DSL	Listed
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed
KECL	Listed

Ethofumesate

EINECS/ELINCS	Listed
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USA

Federal Regulations

SARA 313

Y

Chemical Name	CAS-No	Weight %
Ethylene glycol	107-21-1	8

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 contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ethylene glycol	107-21-1	8	Listed.	Listed.		

CERCLA

Chemical Name	RQ
Ethylene glycol	Listed.

RCRA**Pesticide Information****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
Ethylene glycol	Listed.	Substance no. 0878 Listed.	Listed.	Listed.	Listed.

International Regulations

Mexico - Grade

Mexico - Grade

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

Chemical Name	NPRI
Ethylene glycol	X

16. OTHER INFORMATION

Revision Date

13-Jan-2009

Revision Summary

Update section 15

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End of MSDS