



Material Safety Data Sheet

United Phosphorus, Inc.

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| NFPA | PPE | | |
| | | | |

Issued Date 29-May-2012

Revision Date 24-Jan-2013

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 R&D Technical Service | 1-800-438-6071 484-804-6974 | 8:00 am - 5:00 pm (EST) 8:00 am to 5:00 pm EST |

Product Name Current Aquatic Herbicide
EPA Reg # 70506-248
Recommended Use Aquatic herbicide
Product Code 12P-0002

2. HAZARDS IDENTIFICATION

| Emergency Overview | | |
|--|-------------------------------|----------------------------|
| Harmful by inhalation, in contact with skin and if swallowed | | |
| Appearance Dark purple. | Physical State Liquid. | Odor Not available. |

Potential Health Effects

Eyes Moderately irritating to the eyes. May cause redness, swelling, and discharge, but is reversible.

Skin Substance may cause slight skin irritation.

Inhalation Harmful by inhalation.

Ingestion Toxic if swallowed.

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal Precautions | Avoid contact with skin, eyes and clothing. |
| Environmental Precautions | Do not flush into surface water or sanitary sewer system. 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 | Remove all ignition sources. Soak up with inert absorbent material. Ground and bond containers when transferring material. Keep in suitable and closed containers for disposal. |

7. HANDLING AND STORAGE

| | |
|-----------------|---|
| Handling | Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep out of reach of children. Empty containers may contain hazardous residues. |
| Storage | Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not 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 | 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. 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

| | | | |
|----------------------------|-------------------|----------------------------|-------------------------------|
| Appearance | Dark purple | Odor | Not available |
| Physical State | Liquid | pH | 9.62 |
| Boiling Point/Range | 215 °F | Melting Point/Range | Not available |
| Specific Gravity | Not available | Solubility | soluble in water and alcohols |
| 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 | Should not be used where pH of water is below 6 due to the possibility that the copper chelate may dissociate and release copper ions which could subsequently be precipitated as insoluble copper salts. Should not be applied when water temperature is below 60 F. |
| Incompatible Materials | No materials to be especially mentioned |
| Hazardous Decomposition Products | Decomposes above 200 C |
| Possibility of Hazardous Polymerization | None under normal processing |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Current:
Acute oral LD50 = 498 mg/kg
Acute dermal LD50 = >2000 mg/kg
Acute inhalation LC50 = 0.81 mg/L 4 hr (rat)
Eye irritation = Moderately irritating.
Skin irritation = SLightly toxic dermally

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contact supplier for ecological information.

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

Proper Shipping Name Copper based pesticides liquid, toxic
Hazard Class 6.1
UN-No UN3010
Packing Group PG III

ICAO

UN-No UN3010
Proper Shipping Name Copper based pesticides liquid, toxic
Hazard Class 6.1
Packing Group PG III

IATA

UN-No UN3010
Proper Shipping Name Copper based pesticides liquid, toxic
Hazard Class 6.1
Packing Group PG III
ERG Code 6L

IMDG/IMO

Proper Shipping Name Copper based pesticides liquid, toxic
Hazard Class 6.1
UN-No UN3010
Packing Group PG III
EmS No. F-A,S-A

15. REGULATORY INFORMATION

International Inventories

USA

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 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization
Chronic Health Hazard

No

12P-0002
Current Aquatic Herbicide

| | |
|-----------------------------------|-----|
| 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

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

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 24-Jan-2013

Revision Summary

Add to system

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End of MSDS