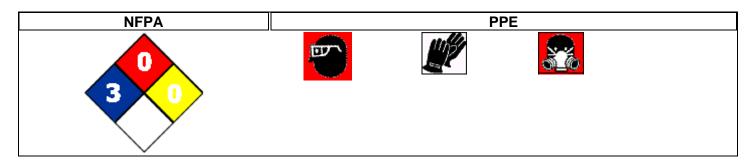
# **Material Safety Data Sheet**



# United Phosphorus, Inc.



Issued Date 07-Feb-2007 Revision Date 12-Nov-2008 Revision Number: 4

# 1. PRODUCT AND COMPANY IDENTIFICATION

UPI

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)

**Company Information** 

Contact Information
Customer Service
R&D Technical Service

12-172

Phone Number 1-800-438-6071 610-878-6100 Available Hrs\_ 8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

Product Name EPA Reg # Recommended Use Product Code Hydrothol® Granular Aquatic Algicide and Herbicide 70506-174 Aquatic algicide - herbicide

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

Causes irreversible eye damage

Harmful by inhalation, in contact with skin and if swallowed

Irritating to skin

DANGER!

Appearance Grey, Brown. Physical State Solid. Odor Sharp musty

#### **Potential Health Effects**

Inhalation

- Skin contact

**Eyes** Severly irritating to the eyes. Causes irreversible eye damage..

**Skin** Severely irritating to the skin.

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

**Ingestion** May be harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Ingredients Name**

| Chemical Name                   | CAS-No     | Weight % | OSHA PEL |
|---------------------------------|------------|----------|----------|
| Mono(N,N-diethylalkylamine)salt | 66330-88-9 | 11       | N/A      |
| of endothall                    |            |          |          |

## 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

artifical 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

Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point Not available Autoignition Temperature Not available

Flammability Limits in Air Not available

Extriguishing Media Use: Water spray, Carbon dioxide (CO2), Foam, Dry chemical.

Fire/Explosion Hazard Firefighters and others who may be exposed to products of

combustion should wear full fire fighting turn out gear and selfcontained breathing apparatus. Fire fighting equipment should be

thoroughly decontaminated after use.

Hazardous Combustion Products Elevated temperatures can cause decomposition to potentially toxic

gases.

NFPA Health 3 Flammability 0 Instability 0

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**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 pertinenet environmental permits.. Do not flush into surface water or

sanitary sewer system.

Methods for Clean-up Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed

containers for disposal.

## HANDLING AND STORAGE

Handling Avoid dust formation. Avoid breathing dust. Keep out of reach of children. In case of insufficient

ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Empty

containers may contain hazardous residues.

Storage Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not

occur. . Keep tightly closed in a dry and cool place. Keep in properly labelled containers.

# 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

Goggles.
Rubber gloves. 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 before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Grey Brown **Appearance** Odor Sharp musty **Physical State** Solid (1% solution)4.6 pН **Boiling Point/Range** Not available Melting Point/Range Not available Specific Gravity Not available Solubility Dispersible in water Not available 2.09 X 10-5 mmHg @25 **Evaporation Rate** Vapor Pressure

Vapor Density

Not available

VOC Content

11.5%

ViscosityNot availableMolecular WeightNo data availableBulk DensityNo data availablePercent SolidsNot available

Percent Volatiles Not available

# 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions

Conditions to Avoid Avoid Avoid dust formation, Extreme temperatures.

Incompatible Materials No materials to be especially mentioned

Hazardous Decomposition Products Extreme temperatures may convert endothall product to endothall

anhydride, a strong vessicant, causing blistering of eyes, mucous

membranes and skin. .

Possibility of Hazardous Polymerization Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

## **Acute Toxicity**

**Product Information** 

Single exposure studies indicate:
Oral - Slightly toxic to rats (LD50 1,540 mg/kg)
Dermal - Practically non-toxic to rabbits (LD50 >10,000 mg/kg)
Inhalation - Practically non-toxic to rats (4 hr LC50 5.32 mg/l)
Skin irritation - Severely irritating
Eye irritation - Severely irritating

#### **Endothall**

Intentional swallowing of 40 ml led to death within 12 hours. Skin allergy was observed in guinea pigs following repeated exposure. Repeated dietary administration (Via gelatin capsules) produced vomiting, diarrhea, sluggish movements, and liver, kidney and blood effects in dogs. Long-term dietary administration to rats and mice produced effects in the glandular stomach. High mortality rates and intestinal tumors considered to be secondary to the effects in the stomach were observed in mice. Long-term application to the skin of mice produced no tumors. No birth defects were observed in the offspring of rats exposed orally during pregnancy, even at dosages that produced adverse effects on the mothers. Skelatal abnormalities were observed in the offspring of rabbits and mice exposed during pregnancy, butonly at dosages that produced adverse effects in the mothers. No genetic changes were observed in tests using bacteria, animal cells or animals.

**Chronic Toxicity** 

There are no known carcinogenic chemicals in this product

Carcinogenicity

## 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

This material is highly toxic to Daphnia magna (48 hr LC50 0.36 mg/l), fathead minnow (96 hr LC50 0.94 mg/l, golden shiner (120 hr LC50 0.32 mg/l) and scud (96 hr TL50 0.48 mg/l). It is moderately toxic to mussels (48 hr LC50 4.85 mg/l) and rainbow trout (96 hr LC50 1.7 mg/l). The 7 day LC50 for Ceridaphnia was 0.18-0.19 mg/l and 0.304 mg/l for fathead minnow. Material is slightly toxic to bluegill sunfish( 96 hr LC50 77 mg/l), rainbow trout (96-hr LC50 0.94 mg/l) Daphnia magna(48 hour LC50 92 mg/l) eastern oysters(96 hr LC50 54 mg/l) mysid shrimp (96 hr LC50 39 mg/l) and fiddler crab (96 hr LC50 85.1 mg/l) It is practically non-toxic to sheepshead minnow(96 hr LC50110 mg/l) and common mummichog ( 96 hr LC50 213.9 mg/l).

Chem Fate:. Active ingredient (technical) -

No degradation was observed in irradiated or dark water during a 30-day test period at pH 7 or 9. Rapid degradation was observed in irradiated, but not dark, water at pH 5 (Half-life <24 hours). This material adsorbed readily from aqueous solution on to Crosby silt loam. It is not expected to bioaccumulate with bioaccumulation factors (BCF) of 10 for mosquito fish and 0.003- 0.008 for bluegills..

# 13. DISPOSAL CONSIDERATIONS

# 12-172 - Hydrothol® Granular Aquatic Algicide and Herbicide

# 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**

#### 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 and Title 40n of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazardous Categorization

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

#### **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**

# 12-172 - Hydrothol® Granular Aquatic Algicide and Herbicide

#### **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 12-Nov-2008

Revision Summary Update section 1

#### Miscellaneous

UPI has aguired Cerexagri. Previous registration number assignment: 4581-172

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**End of MSDS**