

# **Safety Data Sheet**

**United Phosphorus, Inc.** 

Preparation Date 28-Apr-2015

Revision date 06-Nov-2015

**Revision Number: 2** 

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

Product identifier Product Description:

Hydrothol® Granular Aquatic Algicide and Herbicide

Other means of identification Item#: Synonyms Registration number(s)

12-172 Not Available 70506-174

Recommended use of the chemical and restrictions on useRecommended useAquatic. algicide. -. Herbicide.Uses advised againstActivities contrary to label recomendation

Details of the Supplier of the Safety Data SheetSupplier AddressUnited Phosphorus Inc.630 Freedom Business CenterSuite 402King of Prussia, PA 19406Emergency telephone numberCompany Phone NumberEmergency telephone numberChemtrec: (800) 424-9300 (24hrs) or (703) 527-3887Medical: 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)

Acute toxicity - Oral	Category 4

Label elements

**EMERGENCY OVERVIEW** 

WARNING	

**hazard statements** HARMFUL IF SWALLOWED



Physical state solid

Odor Solvent-like

**Precautionary Statements - Prevention** 

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

## 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Mono(N,N-diethylalkylamine)salt of endothall	66330-88-9	11	

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. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
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. Seek immediate medical attention/advice. Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use.		
Inhalation	If breathing is irregular or stopped, administer artificial respiration. MAY CAUSE ALLERGIC RESPIRATORY REACTION. Call a poison control center or doctor for further treatment advice. Move to fresh air. Call a physician or poison control center immediately. Artificial respiration and/or oxygen may be necessary.		
Ingestion	Call a physician or poison control center immediately. May produce an allergic reaction. Clean mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice. Do not induce vomiting without medical advice.		
Most Important Symptoms and Ef	fects, Both Acute and Delayed		
Most Important Symptoms and Effects	Burning feeling and temporary redness.		
Indication of Any Immediate Medical Attention and Special Treatment Needed			
Notes to physician	No information available. Treat symptomatically.		
5. Fire-fighting measures			

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

## Specific hazards arising from the chemical

No information available.

Hazardous combustion productsExtreme temperatures convert Endothall product to endothall anhydride which is a strong vessicant causing blistering of eyes, mucous membranes and skin.

### 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
   Avoid contact with skin, eyes and clothing. Wear protective gloves/clothing and eye/face protection.

   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. Local authorities should be advised if significant spillages cannot be contained.

   Methods and material for containment and cleaning up
- Methods for Clean-UpSweep up and shovel into suitable containers for disposal. Keep in suitable and closed<br/>containers for disposal. Shovel or sweep up.

## 7. Handling and Storage

#### Precautions for safe handling Avoid dust formation. Avoid breathing dust. Keep out of reach of children. In case of Handling insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Empty containers may contain hazardous residues. Conditions for safe storage, including any incompatibilities 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. Keep containers tightly closed in a cool, well-ventilated place. No information available. incompatible materials 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** Goggles. Skin protection 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

#### Information on basic physical and chemical properties

Physical state appearance color	solid grey brown No information available	Odor	Solvent-like
Property pH Melting point/freezing point Boiling Point/Range Flash Point Evaporation Rate flammability (solid, gas) Flammability limit in air	VALUES 4.6 5.6 °C / 42 °F No information available No information available No information available No information available	<u>Remarks/ • Method</u>	
Upper Flammability Limit Lower Flammability Limit vapor pressure Vapor Density	No information available No information available 2.09 X 10-5 mmHg @25 C(Endothal salt) No information available		
Specific gravity Water solubility Solubility in Other Solvents	No information available No information available No information available		
Partition coefficient: n-octanol/wate Autoignition temperature decomposition temperature	erNo information available No information available No information available		
Viscosity, kinematic Dynamic viscosity Explosive properties Oxidizing properties	No information available No information available No information available No information available		
OTHER INFORMATION			
Softening point molecular weight VOC Content density Bulk density	No information available No information available No information available No information available No information available		

## **10. Stability and Reactivity**

#### Reactivity no data available

<u>Chemical stability</u> Stable under recommended storage conditions. <u>Possibility of hazardous reactions</u> None under normal processing. <u>Conditions to avoid</u>

#### Avoid dust formation. Not known. incompatible materials No information available. Hazardous decomposition products Extreme temperatures may convert endothall product to endothall aphydride, a strong yes

Extreme temperatures may convert endothall product to endothall anhydride, a strong vessicant, causing blistering of eyes, mucous membranes and skin.

## **11. Toxicological Information**

## Information on Likely Routes of Exposure

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.
Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause irreversible damage to eyes.
Skin contact	Irritating to skin.
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 information available.					
Carcinogenicity	There are no known carcinogenic chemicals in this product.					
Reproductive effects	Not Available.					
STOT - Single Exposure	No information available.					
STOT - repeated exposure	No information available.					
Aspiration hazard	No information available.					
Numerical Measures of Toxicity - Product information						
LD50 Oral	1540 mg/kg (rat)					
LD50 Dermal	> 10000 mg/kg (rat)					
LC50 Inhalation:	LC50/inhalation/4h/rat = 5.32 mg/l					
	12 Ecological Information					

## 12. Ecological Information

## ecotoxicity\_

IO ppm I m
13. Disposal Considerations
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.
Refer to product label.
14. Transport Information
NOT REGULATED
NOT REGULATED
NOT REGULATED

## 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	DANGER!
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. Causes irreversible eye damage. May be fatal if swallowed. Toxic to fish and aquatic inverebrates.

International Inventories	
USINV	Not determined
DSL/NDSL	Not determined
EINECS/	Does not comply
ELINCS	
ENCS	Does not comply
China	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply
TSCA	Does not comply

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 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	
Acute health hazard	yes
Chronic health hazard	NO
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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<u>CERCLA</u> SARA Product RQ

RCRA Pesticide Information

State Regulations

State Right-to-Know International regulations U.S. EPA Label information EPA Pesticide registration number 70506-174

16. Other Information				
NFPA	HEALTH 3	flammability 0	Instability 0	Physical hazard -
Preparation Date Revision date	28-Apr-2015 06-Nov-2015			

#### Revision Summary Update section 11 Disclaimer

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End of MSDS