



Preparation Date 28-Apr-2015 Revision date 10-Mar-2025 Revision Number: 11

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

Identification of the product

Product Description Hydrothol® Granular Aquatic Algaecide and Herbicide

Other means of identification

Internal SDS code 12-172

Synonyms Hydrothol 191 Granular Aquatic Algicide and Herbicide

Registration number(s) 70506-174

Recommended use of the chemical and restrictions on use

**Recommended use** Aquatic. Algaecide. -. Herbicide.

**Details of the Supplier of the Safety Data Sheet** 

Supplier Address UPL NA Inc. PO Box 12219

Research Triangle Park, NC 27709-12219

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison and Drug Safety (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



Appearance grey brown 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

· No information available

## 3. Composition/information on Ingredients

**Synonyms** 

Hydrothol 191 Granular Aquatic Algicide and Herbicide.

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

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 a 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 Effects, Both Acute and Delayed

Most Important Symptoms and

Burning feeling and temporary redness.

**Effects** 

#### 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

# 12-172 Hydrothol® Granular Aquatic Algaecide and Herbicide

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

Unsuitable extinguishing media no data available.

## Specific hazards arising from the chemical

No information available.

**Hazardous combustion products** Extreme 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/protective clothing and

eye/face protection.

**Environmental Precautions** 

requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent 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-Up Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed

containers for disposal. Shovel or sweep up.

## 7. Handling and Storage

## Precautions for safe handling

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.

## 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.

incompatible materials No information available.

## 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

# 12-172 Hydrothol® Granular Aquatic Algaecide and Herbicide

Eye/Face Protection Skin protection Respiratory protection

Goggles.

Rubber gloves. Wear protective gloves/clothing.

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

## 9.1 Information on basic physical and chemical properties

Appearance grey brown

Physical state solid Solvent-like

**color** No information available

Property VALUES Remarks/ Method

pH 4.6 None known

Melting point/freezing point

None known
Boiling Point/Range

None known

Flash Point No information available None known

Evaporation Rate None known Flammability (solid, gas) None known

Vapor pressure 2.09 X 10-5 mmHg @25 C(Endothal

salt)

Specific gravity

None known
Bulk density

None known
Water solubility

Solubility in Other Solvents

Dispersible in water

None known
Partition coefficient: n-octanol/water

Autoignition temperature

None known

Decomposition temperature

None known
Viscosity

None known

## 9.2 OTHER INFORMATION- NONE

# 10. Stability and Reactivity

#### Reactivity

no data available

## **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to avoid**

Avoid dust formation. Not known.

#### incompatible materials

No information available.

#### Hazardous decomposition products

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. Based on available data, the classification criteria

are not met.

**Eye contact** May cause irreversible damage to eyes.

**Skin contact** Based on available data, the classification criteria are not met. Causes skin irritation.

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 data available.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration hazard
Not Available.
no data available.
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

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

#### ecotoxicity

Endothall mono amine salt: Acute contact toxicity Honey Bee Practically non toxic Acute Toxicity Avain Northern Bobwhite Quail LD50 736 mg/kg

Acute Toxicity Freshwater Fish EC50

Bluegill sunfish 0.94 ppm Rainbow trout 0.56 ppm Cutthroat trout 0.18 ppm Channel catfish 0.49 ppm

Acute Toxicity Freshwater Invertebrates EC50

Daphnia magna 0.36 ppm (48 hr) Grasshrimp 0.05 ppm (96hr) Scud 2.0 ppm (48hr)

Acute Toxcity Marine Invertebrates (flow thru) EC50 Mysid shrimp 2.2 ppm (96 hr)

Acute Toxicity Marine Fish (Flow thru) EC50

Sheepshead minnow 3.5 ppm (96 hr)

## Persistence/Degradability

no data available.

## **Bioaccumulation/ Accumulation**

No information available.

## **Other Adverse Effects**

no data available

## 13. Disposal Considerations

## **Waste Treatment Methods**

**Waste Disposal Method** Pesticide wastes can be 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 refer to the IMDG shipping description:

**TDG** When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

In bulk, by vessel or internationally - use IMDG description

**IATA** 

UN/ID no UN3077

Proper shipping name Environmentally hazardous substances, solid, n.o.s (Monodimethylalkylamine salt of

endothal)

Hazard class 9 Packing group PG III

**Description** Marine pollutant

IMDG Single or inner packaging less than 5L (liquid) or 5 kg net (solids) are excepted from the

Dangerous Goods regulations (IMDG 2.10.2.7)

UN/ID no UN3077

Proper shipping name Environmentally hazardous substances, solid n.o.s. (Monodimethylalkylamine salt of

endothal)

Hazard class 9 Packing group PG III

Environmental hazards Marine pollutant

# 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 present
DSL/NDSL Not present
EINECS/ Not Present

**ELINCS** 

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present

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

**CERCLA** 

Not applicable

CERCLA 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 Date28-Apr-2015Revision date10-Mar-2025

**Revision Summary** 

Update section 14 updated technical name

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**End of SDS**