

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 27-Apr-2015 Revision date 19-Aug-2016 Revision Number: 2

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

Product identifier

Product Description: Teton

Other means of identification

 Item#:
 12-174B

 UN-No
 2902

 Synonyms
 Not Available

Synonyms Not Available Registration number(s) 70506-175

Recommended use of the chemical and restrictions on use

Recommended use Aquatic herbicide. algicide.

Details of the Supplier of the Safety Data Sheet

Supplier Address
United Phosphorus Inc.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

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 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 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 2
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Label elements

EMERGENCY OVERVIEW

DANGER

hazard statements

Toxic if swallowed
Toxic in contact with skin
Fatal if inhaled



appearance Dark yellow light brown

Physical state Liquid

Odor Slight chlorine

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor if you feel unwell Remove/Take off immediately all contaminated clothing

In case of inadequate ventilation wear respiratory protection

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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-dimethylalkylamine)salt of endothall	66330-88-9	53	

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

General advice Immediate medical attention is not required. Show this safety data sheet to the doctor in

attendance.

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 Wash off immediately with plenty of water for at least 15 minutes. Call a 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

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artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or

doctor for further treatment advice.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting without

medical advice. Never give anything by mouth to an unconscious person.

Protection of First-aidersUse personal protective equipment.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

No information available.

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

Carbon dioxide (CO2). Aquatic. Foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

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 and eyes. Use personal protective equipment. Wear protective

gloves/protective clothing and eye/face protection.

Environmental Precautions

Environmental precautionsConsult 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.

Methods and material for containment and cleaning up

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

Precautions for safe handling

Handling Keep out of reach of children. Empty containers may contain hazardous residues. Avoid

contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry place. Keep containers tightly closed in a cool, well-ventilated place. Keep

from freezing.

incompatible materials Strong oxidizing agents.

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 Use eye protection to avoid eye contact. Where there is potential for eye contact have eye

flushing equipment available. Goggles.

Skin protection Wear protective gloves/clothing. Chemical resistant footwear plus socks.

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

Information on basic physical and chemical properties

Physical state Liquid

appearance Dark yellow light brown Odor Slight chlorine

color No information available

Property VALUES Remarks/ • Method

pH No information available
Melting point/freezing point
Boiling Point/Range No information available
100 °C / 212 °F

Flash Point > 100 C

Evaporation Rateflammability (solid, gas)
No information available
No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
9.45 X 10-6 Torr(Salt)
No information available

Specific gravity 1.044 @25 C

Water solubility
Solubility in Other Solvents
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature
decomposition temperature
Viscosity, kinematic
Dynamic viscosity
Explosive properties
No information available
No information available
No information available
No information available

Oxidizing properties No information available

OTHER INFORMATION

Softening point
molecular weight
VOC Content
density
No information available

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization Hazardous polymerisation does not occur.

Conditions to avoid

Not known.

incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

Single exposure studies indicate:Oral - Moderately toxic to rats (LD50 233.4 mg/kg) Dermal - Moderately toxic to rabbits (LD50 480.9 mg/kg)Inhalation - Slightly toxic to rats (4 hr LC 50 0.7 mg/l)Skin irritation - Severely irritating to rabbitsEye irritation - severely irritating to rabbitsNo skin allergy was observed in guinea pigs following repeated exposure. 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 Harmful by inhalation.

Eye contact Corrosive. May cause irreversible damage to eyes.

Skin contact Causes severe skin burns.

Ingestion MAY BE FATAL 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

No information available. sensitization 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 233 mg/kg (rat) **LD50 Dermal** 480.9 mg/kg (rat) LC50 Inhalation: 0.7 mg/l (rat) (4-hr)

12. Ecological Information

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 information available.

Bioaccumulation/ Accumulation

Does not bioaccumulate.

Other Adverse Effects

No information available

13. Disposal Considerations

Waste Treatment Methods

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is **Waste Disposal Method**

a violation of Federal law. If the wastes cannot be disposed of by use or according to label

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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

UN-No 2902

Proper shipping name Pesticides, liquid, toxic. n.o.s. (Endothal)

Hazard class 6.1 Packing group PG III

Reportable Quantity (RQ): 1,000 lbs (endothall)

TDG

ICAO

UN-No 2902

Proper shipping name Pesticide, liquid, toxic, n.o.s (Endothall)

Hazard class 6.1 Packing group PG III

IATA

UN-No 2902

Proper shipping name Pesticide, liquid, toxic, n.o.s (Endothall)

Hazard class 6.1 Packing group PG III

IMDG/IMO

UN-No 2902

Proper shipping name Pesticide, liquid, toxic, n.o.s (Endothall)

Hazard class 6.1
Packing group PG III
EmS No. F-A, S-A

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. Harmful if inhaled or absorbed through skin.

International Inventories

USINV Not determined Not determined EINECS/ Not comply

ELINCS

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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 hazardyesChronic health hazardNOFire hazardNoSudden release of pressure hazardNoReactive Hazardyes

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

State Regulations

State Right-to-Know International regulations U.S. EPA Label information

EPA Pesticide registration number 70506-175

16. Other Information

NFPA HEALTH 3 flammability 0 Instability 0 Physical hazard -

Eve Contact No information available

Preparation Date27-Apr-2015Revision date19-Aug-2016

Revision Summary
Correct spelling error(s)

Disclaimer

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End of MSDS