

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 17-Apr-2015 Revision date 27-Nov-2018 Revision Number: 2

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

Product identifier

Product Description: AQUATHOL® Super K

Other means of identification

 Product code
 12-388

 ADR
 2588

 Registration number(s)
 70506-191

Recommended use of the chemical and restrictions on use

Recommended use Aquatic herbicide.

Uses advised against Activities contrary to label recommendation

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 4

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Toxic if swallowed Harmful in contact with skin



Revision date 27-Nov-2018

Appearance Tan Physical state granular Odor odorless

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

IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor if you feel unwell
Wash contaminated clothing before reuse

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

Rinse mouth

Precautionary Statements - Storage

Store locked up

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-%
Dipotassium endothall salt	2164-07-0	63
2-propenamide polymer with	31212-13-2	28
potassium		

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.

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.

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.

Ingestion Call a physician or poison control center immediately. Clean mouth with water. Never give

anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

Effects

no data available.

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 data available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products No information available.

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 Use personal protective equipment. Avoid contact with skin and eyes.

Environmental Precautions

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 and material for containment and cleaning up

Methods for Clean-Up Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

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

contact with skin and eyes. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep in properly labelled containers. Store in an area where cross-contamination with Storage

pesticides, fertilizers, food or feed could not occur. Keep containers tightly closed in a cool,

well-ventilated place.

incompatible materials No materials to be especially mentioned.

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

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye **Eye/Face Protection**

flushing equipment available. If splashes are likely to occur, wear:. Goggles.

Chemical resistant gloves. Long sleeved clothing. Long pants. Socks and footwear. Skin protection 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. NIOSH approved half- or full-face respirator with a cartridge or canister approved for dusts and mists or a cartridge with any N, R, P, or He filter. Note: the quarter face cupstyle repsirator does not meet this requirement.

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 granular

AppearanceTanOdorodorless

color No information available

<u>Property</u> <u>VALUES</u> <u>Remarks/ • Method</u>

pH 6.9

Melting point/freezing point 7.9 °C / 46 °F

Boiling Point/Range

Flash Point

Evaporation Rate

Flammability (solid, gas)

No information available

No information available

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
No information available

Specific gravity 0.607 g/cm3

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

Explosive properties

Oxidizing properties

No information available
No information available

OTHER INFORMATION

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availableLiquid DensityNo information available

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

No information available.

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.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information Single exposure studies indicate: Oral- Moderately toxic to Rats (LD50 98 mg/kg)

Dermal - No more than slightly toxic to rabbits (LD50 > 2,000 mg/kg)

Eye Irritation - Severely irritating to rabbits Skin Irritation - Slightly irritating to rabbits

No skin allergy was observed in guinea pigs following repeated exposure.

Inhalation May be harmful if inhaled.

Eye contact May cause irreversible damage to eyes.

Skin contact Slightly irritating.

Ingestion Toxic if swallowed.

Component Information Endothal-potassium Although no allergic skin reactions were observed in guinea pigs

following exposure to this material in water, allergic skin reactions were observed following exposure to this material in ethanol. Repeated application to the skin of rats produced severe skin irritation, liver, and kidney effects considered to be secondary to irritation, and increased mortality. Long-term dietary administration produced no adverse effects in rats.

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 98 mg/kg (rat) **LD50 Dermal** 98 mg/kg (rat) > 2000 mg/kg (rat)

12. Ecological Information

ecotoxicity

Endothall dipotassium salt: Mallard duck LD50 = 328 mg/kg

Bluegill sunfish EC50= 1071 ppm Rainbow trout EC50 = 363 ppm Sheepshed minnow 96 hr EC50 = 340 ppm Mysid shrimp 96 hr EC50 = 257 ppm Eastern oyster 96 hr EC50 = 335 ppm

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 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 Non refillable container. Do not reuse this container. Refer to product label.

14. Transport Information

DOT When shipped as a limited quantity by domestic highway, as per 49 CFR 173.153(b) the

combination package, not exceeding a gross weight of 66 pounds (30kg), may contain inner

packages not over 11 lbs (5 kg) each. Limited quantity designated packagings are excepted from labeling and packaging specification requirements. If the Limited Quantity package is being shipped by air the package must conform to the applicable requirements

of 173.27

ADR 2588

Proper shipping name Pesticides, solid, toxic, n.o.s. (Endothall)

Hazard class 6.1 ADR PG III

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

<u>TDG</u>

<u>ICAO</u>

ADR 2588

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

Hazard class 6.1 ADR PG III

<u>IATA</u>

ADR 2588

IATA Pesticide, solid, toxic, n.o.s (Endothall)

Hazard class 6.1 ADR PG III

<u>IMDG</u>

ADR 2588

IMDG Pesticide, solid, toxic, n.o.s (Endothall)

 Hazard class
 6.1

 ADR
 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***

Keep out of Reach of Children. Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through the skin. Pesticide is toxic to mammals.***

International Inventories

USINV Present
DSL/NDSL Present
EINECS/ Not Present

ELINCS

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Acute health hazardyesChronic health hazardNOFire hazardNoSudden release of pressure hazardNoReactive Hazardyes

CERCLA

Not applicable

CERCLA

SARA Product RQ 0

RCRA

Pesticide Information

State Regulations

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-191

16. Other Information

NFPA HEALTH 3 flammability 0 Instability 1 Physical hazard -

Preparation Date 17-Apr-2015 Revision date 27-Nov-2018

Revision Summary
3 year cycle update***

Disclaimer

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