

# **Safety Data Sheet**

Preparation Date 16-Apr-2015 Revision date 31-Dec-2018 Revision Number: 3

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

Product identifier

Product Description: AquaStrike

Other means of identification

 Product code
 AQS

 UN/ID no.
 2902

 Registration number(s)
 70506-302

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** 

UPL NA 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
Acute toxicity - Inhalation (Vapors)	Category 2
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements

#### **EMERGENCY OVERVIEW**

### DANGER

### **Hazard Statements**

Toxic if swallowed

Harmful in contact with skin

Fatal if inhaled

CAUSES SKIN IRRITATION

Causes serious eve irritation

May cause an allergic skin reaction

May cause respiratory irritation

Causes damage to organs through prolonged or repeated exposure

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Appearance Yellow 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

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

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

Call a POISON CENTER or doctor if you feel unwell

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

- Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life

### 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Dipotassium endothall salt	2164-07-0	28.64
Diquat dibromide	85-00-7	10.6

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

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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 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

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

control center immediately.

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

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 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

**Environmental Precautions** 

Do not flush into surface water or sanitary sewer system. Consult a regulatory specialist to **Environmental precautions** 

> 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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, Methods for Clean-Up

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. Wear personal protective equipment. Remove and wash

contaminated clothing before re-use. Avoid contact with skin and eyes. Do not eat, drink or

smoke when using this product.

#### 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 in a dry, cool and well-ventilated place. Keep only in original container.

**incompatible materials**No information available.

### 8. Exposure Controls/Personal Protection

#### **Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL
Diquat dibromide	TWA: 0.5 mg/m <sup>3</sup> inhalable	(vacated) TWA: 0.5 mg/m <sup>3</sup>
	fraction	
	TWA: 0.1 mg/m³ respirable	
	fraction	
	S*	

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. Safety glasses with side-shields. If splashes are likely to

occur, wear:. Goggles.

**Skin protection** Chemical resistant gloves. waterproof gloves. Long sleeved clothing. Long pants. Socks

and footwear.

Respiratory protection Mixers & loaders:

A NIOSH approved dust mist filtering respirator with MSA/NIOSH approval number prefix

TC-21C or a NIOSH approved respirator with any N, R, P, or HE filter.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state Liquid

Appearance Yellow brown Odor Slight chlorine

**color** No information available

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

**pH** 7.4

Melting point/freezing point no data available

Boiling Point/Range >100 °C

Flash Point

Evaporation Rate No information available Flammability (solid, gas) 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 1.285

Water solubility
Solubility in Other Solvents
No information available
No information available

Partition coefficient: n-octanol/waterNo information available

Autoignition temperature no data available

Decomposition temperatureNo information availableViscosity, kinematicNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo 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 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**

AquaStrike

Acute Oral LD50 = 93.28 mg/kg Acute dermal LD50 = > 2,000 mg/kg Acute Inhalation LC50 = >0.52 mg/L

Inhalation MAY BE FATAL IF INHALED.

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

Skin contact CAUSES SKIN IRRITATION.

Ingestion MAY BE FATAL IF SWALLOWED.

Component Information Although no allergic skin reactions were observed in guinea pigs following exposure to this

material in water, allergic skin reactions were observed following expsoure 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. Eye irritation - Cause

irreversible eye damage in rabbits

### 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
 92.28 mg/kg

 LD50 Dermal
 > 2000 mg/kg

 LC50 Inhalation
 > 0.52 mg/l

### 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

UN/ID 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

**ICAO** 

UN/ID no. 2902

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

Hazard class 6.1 Packing group PG III

IATA

**UN/ID** no. 2902

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

Hazard class 6.1 Packing group PG III

**IMDG** 

UN/ID no. 2902

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

Hazard class6.1Packing groupPG IIIEmS 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.

Causes irreversible eye damage. May be fatal if swallowed. Harmful if inhaled or absorbed through skin.

**International Inventories** 

USINV Present
DSL/NDSL Present
EINECS/ Present

**ELINCS** 

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

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Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diquat dibromide 85-00-7				X

#### **CERCLA**

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Chemical name	RQ	CERCLA EHS RQs	RQ
Diquat dibromide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final
85-00-7			RQ

**CERCLA** 

Component	RQ
Diquat dibromide	1000 lb
85-00-7 ( 10.6 )	

#### **RCRA**

Pesticide Information

#### **State Regulations**

State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-302

### 16. Other Information

NFPA HEALTH 3 flammability 0 Instability 1 Physical hazard -

Preparation Date 16-Apr-2015 Revision date 31-Dec-2018 Revision Summary

Update logo Update Section 16 Update section 1\*\*\*

#### Disclaime

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**End of SDS**