FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: AB WEEDTRINE-D

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier REVISION DATE: 04/20/2016 **Applied Biochemists (WI)** SUPERCEDES: 02/29/2016

1400 Bluegrass Lakes Pkwy , Alpharetta, GA, 30004

USA MSDS Number: 000000024410 SYNONYMS: None

Telephone: +18005585106 CHEMICAL FAMILY: None

Telefax: +12626741786

DESCRIPTION / USE Water treatment chemical

Web: www.appliedbiochemists.com

FORMULA: None established

Manufacturer

Advantis Technologies 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 3

Acute toxicity (Dermal) : Category 3

Eye irritation : Category 2A

GHS label elements

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 1 of 10

Hazard pictograms :





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H311 + H331 Toxic in contact with skin or if inhaled.

H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.
P280 Wear protective gloves/ protective clothing.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel

unwell.

P304 + P340 + P311 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#

CAS OR CHEMICAL NAME

diquat dibromide 85-00-7

% RANGE 8.53

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 2 of 10

SECTION 4. FIRST AID MEASURES

General Advice: Call a poison control center or doctor for treatment advice. For 24-hour

emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a

poison control center or doctor, or going for treatment.

Inhalation: IF INHALED: 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.

Skin Contact: IF ON SKIN OR CLOTHING: 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.

Eye Contact: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: IF SWALLOWED: Call a poison control center or doctor immediately for treatment

advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give

anything by mouth to an unconscious person.

Notes to Physician: To be effective, treatment for ingestion of the product must begin IMMEDIATELY.

Treatment consists of binding the active ingredient, diquat, in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination and removal of diquat from the blood by charcoal

hemoperfusion or continuous hemodialysis.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or

mixture is not classified as pyrophoric., Not explosive

Flammable Properties

Flash Point: no data available Autoignition Temperature: no data available

Fire / Explosion Hazards: Will not burn Contact with reactive metals, e.g., aluminum may

result in the generation of flammable hydrogen gas.

Extinguishing Media: Dry powder Foam Carbon dioxide (CO2)

Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use

normal fire-fighting equipment and the personal protective

equipment recommended in Section 8 to include a NIOSH approved

self-contained breathing apparatus.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

Upper Flammable / Explosive Limit,

% in air:

no data available

Lower Flammable / Explosive Limit,

% in air:

no data available

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 3 of 10

SECTION 6. ACCIDENTAL RELEASE MEASURES

Situations: and a NIOSH approved self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Keep people away from and upwind of spill/leak.

Water Release: solubleIf the product contaminates rivers and lakes or drains inform

respective authorities.

Land Release: Contain spillage, soak up with non-combustible absorbent material,

(e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).Do not contaminate ponds, waterways or ditches with

chemical or used container.

Additional Spill Information: Prevent further leakage or spillage if safe to do so. Use personal

protective equipment as required. Evacuate personnel to safe areas.

SECTION 7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. If

in eyes or on skin, rinse well with water. Avoid breathing vapours,

mist or gas.

Storage: Store in a cool, dry and well ventilated place. Isolate from

incompatible materials. Do not freeze.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: No exposure limits exist for the constituents of this product. Additional

ventilation beyond that of general exhaust is not normally required.

Protective Equipment for Routine Use of Product

Respiratory Protection: Respiratory protection not normally needed.

Skin Protection: Impervious gloves

Eye Protection: Use safety glasses with side shields. Protective Clothing Type: Impervious, Neoprene, butyl-rubber

General Protective Ensure that eyewash stations and safety showers are close to the

Measures: workstation location.

Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
diquat dibromide (85-00-7)	TWA	0.5 mg/m3	ACGIH (03 2014)

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 4 of 10

		SHEET
\sim \wedge L L $_{\perp}$	V	

	Dermal absorption possible	ACGIH (03 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid Form liauid Color: dark brown Odor: no data available Molecular Weight: None established pH: 4.0 - 5.0

Boiling Point: no data available

Melting point/freezing no data available

point

Bulk Density: ()

no data available Vapor Pressure: no data available Vapor Density: no data available Viscosity: no data available

Solubility in Water: soluble

Partition coefficient n-

octanol/water:

no data available

Evaporation Rate: no data available Oxidizing: None established Volatiles, % by vol.: no data available

VOC Content This product does not contain any chemicals listed under the

U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's

(40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

HAP Content no data available

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: Heat

Chemical Incompatibility: Aluminium, strong alkalies

Hazardous Decomposition Products: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 5 of 10 diquat dibromide LD50 Believed to be 215 - 235 mg/kg

Component Animal Toxicology

Dermal LD50 value:

diquat dibromide LD50 > 400 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

diquat dibromide LC50 6h =0.97 mg/l Rat

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 1,000 mg/kg Dermal LD50 value: LD50 Believed to be > 500 mg/kg

Inhalation LC50 No data.

value:

Skin Irritation: Not expected to cause irritation.

Eye Irritation: Contact may cause moderate irritation consisting of transient redness, swelling,

and mucous membrane discharge to the conjunctiva.

Skin Sensitization: Not believed to be sensitising to skin.

Subchronic / Chronic

Toxicity:

There are no known or reported effects from chronic exposure.

Reproductive and Not known or reported to cause reproductive or developmental toxicity. **Developmental Toxicity:**

Mutagenicity: Not known or reported to be mutagenic.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

SECTION 12. ECOLOGICAL INFORMATION

Overview: There is no data available for this product.

Ecological Toxicity Values for: diquat dibromide

Oncorhynchus mykiss (rainbow static test 96 h LC50 = 14.83 mg/l

trout)

Lepomis macrochirus (Bluegill static test 96 h LC50 = 13.9 mg/l

sunfish)

Cyprinodon variegatus static test 96 h LC50 = 228 mg/l

(sheepshead minnow)

Brown trout (Salmo trutta), static test 96 h LC50 = 17.77 mg/l Gambusia affinis (Mosquito fish) static test 96 h LC50 = 289 mg/l

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 6 of 10

Pimephales promelas (fathead

- static test 96 h LC50 = 14 mg/l

minnow)

Daphnia magna (Water flea) - static test 48 h EC50= 0.77 mg/l
Opossum Shrimp - static test 96 h LC50= 2.0 mg/l
Crangon crangon (shrimp) - static test 48 h LC50> 10 mg/l

Crassostrea virginica (Eastern - flow-through test 96 h EC50> 260 mg/l

oyster)

Colinus virginianus (Bobwhite quail) - 8 day dietary LC50 = 2,932 ppm Anas platyrhynchos (Mallard duck) - 8 day dietary LC50 > 5,000 ppm

Anas platyrhynchos (Mallard duck) - Oral LD50 = 564 mg/kg

SECTION 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it DOES NOT meet the criteria of a

hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.As a nonhazardous liquid waste, it should be disposed of in accordance with local, state

and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 1760

Description of the goods : Corrosive liquids, n.o.s. : (diquat dibromide)

Class : 8
Packing group : III
Labels : 8
Emergency Response : 154

Guidebook Number

TDG

UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S.

(diquat dibromide)

Class : 8

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 7 of 10

Packing group : III Labels : 8

IATA

UN number : 1760

Description of the goods : Corrosive liquid, n.o.s.

(diquat dibromide)

Class : 8
Packing group : III
Labels : 8
Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

(passenger aircraft)

Packing instruction : Y841

(passenger aircraft)

IMDG-CODE

UN number : 1760

Description of the goods : CORROSIVE LIQUID, N.O.S.

(diquat dibromide)

Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B

Product not regulated for ground transport in the USA per exception permitted in 49 CFR 173.154(d).

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : CAUTION!

Hazard statements : Harmful if swallowed.

Harmful if absorbed through skin.

Harmful if inhaled.

Causes moderate eye irritation.

This pesticide is toxic to aquatic invertebrates.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated
		(lbs)	product RQ

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 8 of 10

			(lbs)
diquat dibromide	85-00-7	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

diquat dibromide 85-00-7

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

diquat dibromide 85-00-7

Pennsylvania Right To Know

diguat dibromide 85-00-7

New Jersey Right To Know

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 9 of 10

diquat dibromide 85-00-7

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : This is an EPA registered pesticide.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

AB WEEDTRINE-D

REVISION DATE: 04/20/2016 Page 10 of 10