


MATERIAL SAFETY DATA SHEET

AB Weedtrine D

1. Product And Company Identification			
Supplier Applied Biochemists (WI) A division of Advantis Technologies, Inc. W175 N11163 Stonewood Drive, Suite 234 Germantown, WI 53022 Telephone Number: (262) 255-4449 FAX Number: (262) 255-4268 Web Site: www.appliedbiochemists.com		Manufacturer Advantis Technologies, Inc. 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300		Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	
Issue Date: 02/16/2007 Product Name: AB Weedtrine D Chemical Name: Diquat Dibromide CAS Number: Not Established Chemical Family: Bipyrilium (dipyridilium) contact herbicide Chemical Formula: Proprietary MSDS Number: 381			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
DIQUATDIBROMIDE		85-00-7	
Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).			
Hazards Identification (Pictograms)			
			
3. Hazards Identification			
Eye Hazards May cause eye irritation.			
Skin Hazards May be toxic if absorbed through the skin.			
Ingestion Hazards May be toxic if swallowed.			
Inhalation Hazards May be toxic if inhaled.			
Conditions Aggravated By Exposure None known.			

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First Aid (Pictograms)



4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or a poison control center immediately.

Skin

Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion

Call a physician or a poison control center immediately. Have the person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious victim.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Call a physician or a poison control center immediately.

Note 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.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: N/A °F
Flash Point Method: Not Applicable
Autoignition Point: N/A °F
Flammability Class: Not Applicable
Lower Explosive Limit: Not Applicable
Upper Explosive Limit: Not Applicable

Fire And Explosion Hazards

This product may form flammable and explosive hydrogen gas when in contact with aluminum. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media

Use dry chemical, foam, or CO2 extinguishing media.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

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6. Accidental Release Measures

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbant and place into compatible disposal container. Once all material is cleaned up and placed in disposal container, seal container and arrange for disposition.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

The product reacts with aluminum to produce flammable hydrogen gas. Do not mix or store in containers or systems made of aluminum or having aluminum fittings.

Storage Precautions

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Not normally required.

Eye/Face Protection

Chemical splash goggles and/or face shield

Skin Protection

Chemical-resistant gloves made of nitrile or butyl, coveralls, socks and chemical-resistant footwear.

Respiratory Protection

In case of inadequate ventilation, use NIOSH-approved combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

9. Physical And Chemical Properties

Appearance

Dark brown liquid

Odor

Odorless

Chemical Type: Mixture

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9. Physical And Chemical Properties - Continued

Odor - Continued

Physical State: Liquid
Boiling Point: Not Determined °F
Specific Gravity: 1.035-1.045
Vapor Pressure: Not Determined
Vapor Density: Not Determined
pH Factor: 4.0-5.0
Solubility: Complete
Evaporation Rate: Not Determined

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Concentrate should not be stored in aluminum containers. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel, or fiberglass.

Incompatible Materials

Strong alkalis and anionic wetting agents (e.g. alkyl and alkylaryl sulfonates). Corrosive to aluminum.

Hazardous Decomposition Products

Flammable hydrogen gas may be formed on contact with aluminum. Can decompose at high temperatures forming toxic gases.

11. Toxicological Information

Eye Effects

Irritant*

Skin Effects

Moderately Toxic*
Dermal LD50 (Rabbit) = 260 mg/kg body weight*

Acute Oral Effects

Slightly toxic*
Oral LD50 (Rat) = 600 mg/kg body weight*

Acute Inhalation Effects

Moderately Toxic*
Inhalation LC50 (Rat) = 0.121 mg/L air - 4 hours*

Subchronic (Target Organ Effects)

Kidney weight decreases and cataracts seen in dogs at 12.5 mg ion/kg/d.**

Chronic/Carcinogenicity

No evidence of carcinogenicity in rat and mouse studies.**

Teratogenicity (Birth Defects)

In rabbit studies a small percentage of fetuses had minor defects at 3 and 10 mg ion/kg/d.**

Neurotoxicity

No evidence for neurotoxic effects in rats dosed up to 400 ppm ion in the diet for 13 weeks.**

Mutagenicity (Genetic Effects)

No evidence in in vivo assays.**

Toxicological studies not performed on finished product. Toxicological studies based on information on active ingredient as

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11. Toxicological Information - Continued

Mutagenicity (Genetic Effects) - Continued

indicated:

*Diquat dibromide (37.3%)

**Diquat dibromide

12. Ecological Information

Ecotoxicological Information

Diquat dibromide:

This material is slightly toxic to fish. Toxic to invertebrates and birds. Practically non-toxic to bees.

Acute Toxicity - Fish And Invertebrates

Diquat Dibromide:

Invertebrates (Water Flea) LC50/EC50 = 0.77-1.19 ppm

Fish (Trout) LC50/EC50 = 14.8 ppm

Fish (Bluegill) LC50/EC50 = 13.9 ppm

Acute And Dietary Toxicity - Birds

Diquat dibromide:

Birds (8-day dietary - Bobwhite Quail) LC50/EC50 = 106 ppm

Birds (8-day dietary - Mallard Duck) LC50/EC50 = 980 ppm

Toxicity - Beneficial Microorganisms

Diquat dibromide:

Bees LC50/EC50 = 47-100 ug/bee

Environmental Fate Information

No data available for the formulation. The information presented here is for the active ingredient, diquat dibromide.

Stable in soil and water. Immobile in soil. Sinks in water (after 24 hour).

13. Disposal Considerations

Do not reuse product containers. Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name

Corrosive Liquid, N.O.S. (Diquat as Dibromide Salt)

Hazard Class

8, PGIII (<=4L Consumer Commodity ORM-D)

DOT Identification Number

UN1760

DOT (Pictograms)




15. Regulatory Information

No Data Available...

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NFPA	HMIS								
	<table border="1"><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>1</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td>D</td></tr></table>	HEALTH	2	FLAMMABILITY	1	REACTIVITY	0	PERSONAL PROTECTION	D
HEALTH	2								
FLAMMABILITY	1								
REACTIVITY	0								
PERSONAL PROTECTION	D								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

Disclaimer

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Applied Biochemists (WI)

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