

MATERIAL SAFETY DATA SHEET

AB Navigate

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: 02/15/2007 Product Name: AB Navigate Chemical Name: 2,4-D: 2,4-Dichlorophenoxyacetic Acid, Butoxyethyl Ester CAS Number: Not Established Chemical Family: Aquatic Herbicide MSDS Number: 379			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
2-BUTOXYETHYL-2,4-DICHLOROPHENOXYACETATE		1929-73-3	
CRYSTALLINE SILICA		14808-60-7	
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).			
EMERGENCY OVERVIEW			
Harmful if swallowed, inhaled, or absorbed through the skin. It is anticipated to be slightly to moderately toxic if swallowed and slightly toxic if inhaled.			
3. Hazards Identification			
Eye Hazards Causes eye irritation.			
Skin Hazards May be irritating to skin.			
Ingestion Hazards It is anticipated to be slightly to moderately toxic if swallowed.			
Inhalation Hazards It is anticipated to be slightly toxic if inhaled.			
Chronic/Carcinogenicity Effects This product contains clay. IARC has classified crystalline silica (a component of clay) as a probably human carcinogen. Prolonged contact may cause liver damage, kidney damage, and/or chronic muscle damage.			
Signs And Symptoms Repeated and prolonged inhalation of this material may cause a form of disabling lung disease (commonly known as			

MATERIAL SAFETY DATA SHEET

AB Navigate

3. Hazards Identification - Continued

Signs And Symptoms - Continued

silicosis). Clinical signs and symptoms for silicosis include cough, shortness of breath, wheezing and impairment of lung function. Impairment of lung function may be progressive. In the usual case of silicosis, there is a slow deterioration of capacity for physical effort, decreased chest expansion, and an increased susceptibility to tuberculosis and other respiratory infections. Short term, extremely heavy exposure to dust of this material (particularly small sized particles) can result in acute silicosis. Individuals with acute silicosis may suffer an abrupt onset of violent coughing, labored breathing, and weight loss; death has been known to occur within one to two years.

Conditions Aggravated By Exposure

None known.

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. Get medical attention immediately if irritation develops and persists.

Skin

In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

Ingestion

Call a physician or a poison control center immediately. Drink 1 or 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious victim.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flammability Class: Not flammable

Fire And Explosion Hazards

Thermal decomposition products include oxides of carbon, sulfur dioxides and hydrochloric acid.

Extinguishing Media

Water fog, carbon dioxide, dry chemical, or foam.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear. Dike to prevent contamination of water sources.

6. Accidental Release Measures

Clean up spill immediately. Use appropriate containers to avoid environmental contamination. Prevent release to the environment. Do not flush area with water as it can cause contamination of sewer system.

MATERIAL SAFETY DATA SHEET

AB Navigate

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Do not swallow, breath dust, store near food, contaminate water, food, or feed, apply to waters used for irrigation, agricultural sprays, watering dairy animals or domestic water supplies. **Keep out of reach of children.**

Handling Precautions

Wash hands before eating, drinking, or smoking.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Not normally required.

Eye/Face Protection

Safety glasses or splash goggles.

Skin Protection

Wear protective clothing to minimize contact. Wear chemical resistant gloves.

Respiratory Protection

Not normally required. If needed, use NIOSH approved respirator for dusts.

Other/General Protection

Use safe chemical handling procedures suitable for the hazards presented by this material.

9. Physical And Chemical Properties

Appearance

Gray/Tan granules.

Odor

Mild, phenolic odor.

Chemical Type: Mixture

Physical State: Solid

Percent Volitales: Not Determined

Packing Density: Not Determined

Solubility: Insoluble

Evaporation Rate: Not Determined

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

None known.

MATERIAL SAFETY DATA SHEET

AB Navigate

10. Stability And Reactivity - Continued

Incompatible Materials

Acids, bases, and oxidizers.

Hazardous Decomposition Products

Thermal decomposition products include oxides of carbon, sulfur dioxides and hydrochloric acid.

11. Toxicological Information

Acute Studies

None available.

12. Ecological Information

Ecotoxicological Information

None available.

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. RQ for 2-Butoxyethy 2,4-dichlorophenoxy acetate (CAS# 1929-73-3) is 100 lbs.

14. Transport Information

Proper Shipping Name

Not regulated

Hazard Class


Not regulated

DOT Identification Number

NONE

15. Regulatory Information

No Data Available...

NFPA	HMIS								
	<table><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td>F</td></tr></table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	F
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	F								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

Disclaimer

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Applied Biochemists (WI)