FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970)

1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: AB NAVIGATE

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier

Applied Biochemists (WI) W175 N11163 Stonewood Drive,

Suite 234

Germantown, WI, 53022

USA

Telephone: +12622554449 Telefax: +12622554449

Web: www.appliedbiochemists.com

REVISION DATE: SUPERCEDES:

02/15/2007

MSDS Number: SYNONYMS:

CHEMICAL FAMILY:

DESCRIPTION / USE

FORMULA:

000000024524

05/26/2015

None None established None established

Manufacturer

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

AVAILABLE AT: AQUATIC BIOLOGISTS, INC. N4828 HIGHWAY 45 S. FOND DU LAC, WI 54937 Ph: (920) 921-6827 Fax: (920) 921-1690 (800) 442-6648

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Eye irritation

Category 2A

Carcinogenicity

Category 1A

Specific target organ toxicity -

repeated exposure

: Category 2

**GHS Label element** 

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Hazard pictograms





Signal word

Danger

Hazard statements

H319 Causes serious eye irritation.

H350 May cause cancer.

H373 May cause damage to organs through prolonged or

repeated exposure.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

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

do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

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

attention. Storage:

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 OR CHEMICAL NAME Unknown	<u>CAS#</u> 1929-73-3	<u>% RANGE</u> 24 - 30
Bentonite	1302-78-9	40 - 70
crystalline silica, tridymite	15468-32-3	0 - 1
CRISTOBALITE (SIO2)	14464-46-1	0 - 1

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QUARTZ (SIO2)

14808-60-7

0 - 4

calcium lignosulfonate

8061-52-7

0 - 2

### **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.

Call a poison control center or doctor for further treatment advice.

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.

#### SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA):

Product is not known to be flammable, combustible, pyrophoric or

explosive.

Flammable Properties

Flash Point:

Not applicable

Fire / Explosion Hazards:

Fire Fighting Instructions:

Material will not ignite or burn.

Extinguishing Media:

Use dry chemical, water fog, carbon dioxide (CO2), or foam. 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. Use water to cool

containers.

Hazardous Combustion Products:

During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency

Situations:

Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release:

Keep people away from and upwind of spill/leak.

Water Release:

If the product contaminates rivers and lakes or drains inform

respective authorities.

Land Release:

Sweep up and shovel into suitable containers for disposal. Avoid dust generation. After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to

waterways.

Additional Spill Information:

Possible need to alert the neighbourhood. Evacuate personnel to

safe areas. Use personal protective equipment as required.

## **SECTION 7. HANDLING AND STORAGE**

Handling:

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

Upon contact with skin or eyes, wash off with water. Avoid inhalation

of dust and fumes.

Storage:

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

incompatible materials.

Incompatible Materials for Storage:

Refer to Section 10, "Incompatible Materials."

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:

Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection:

Wear a NIOSH approved respirator if levels above the exposure limits are

possible., Wear a NIOSH approved N95 respirator.

Skin Protection:

Wear impervious gloves to avoid skin contact.

Eye Protection:

Use chemical goggles.

Protective Clothing Type:

impervious clothing

General Protective

Emergency eyewash should be provided in the immediate work area.

Measures:

### Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
crystalline silica, tridymite (15468-32-3)	TWA	1.2 millions of particles per cubic	Z3 (2000)

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		foot of airThe exposure limit is calculated from the equation, 125/(%SiO2+5), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.	
	TWA	0.05 mg/m3 The exposure limit is calculated from the equation, 5/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.	Z3 (2000)
	TWA	0.15 mg/m3 The exposure limit is calculated from the equation, 15/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.	Z3 (2000)
CRISTOBALITE (SIO2) (14464-46-1)	TWA	0.025 mg/m3	ACGIH (02 2014)
	TWA	1.2 millions of particles per cubic foot of airThe exposure limit is calculated from the equation, 125/(%SiO2+5), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.	Z3 (2000)
	TWA	0.15 mg/m3	Z3 (2000)

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		The exposure limit is calculated from the equation, 15/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.	
	TWA	0.05 mg/m3 The exposure limit is calculated from the equation, 5/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.	Z3 (2000)
QUARTZ (SIO2) (14808-60-7)	TWA	0.025 mg/m3	ACGIH (02 2014)
	TWA	2.4 millions of particles per cubic foot of airThe exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.	Z3 (2000)
	TWA	0.1 mg/m3 The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.	Z3 (2000)

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	TWA	0.3 mg/m3 The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.	Z3 (2000)
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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

solid

Form

No data.

No data.

Odor:

No data.

Molecular Weight:

None established

pH:

No data.

Boiling Point:

Not applicable

Melting point/freezing

point

Not applicable

Density:

no data available

Bulk Density:

Vapor Pressure:

no data available no data available

Vapor Density:

Not applicable

Viscosity:

no data available

Solubility in Water: Partition coefficient ninsoluble No data

octanol/water:

Evaporation Rate:

no data available None established

Oxidizing: 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

Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:

Stable under normal conditions.

Conditions to Avoid:

Heat

Chemical Incompatibility:

Strong oxidizing agents, Acids and bases

Hazardous Decomposition Products:

Carbon oxides, Sulphur oxides, Hydrogen chloride

Decomposition Temperature:

No data

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## SECTION 11. TOXICOLOGICAL INFORMATION

**Product Animal Toxicity** 

Oral LD50 value:

LD50 Believed to be approximately 3,000 mg/kg Rat

Dermal LD50 value:

LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50 no data available

<u>value</u>:

Skin Irritation:

May cause mild skin irritation.

Eye Irritation:

This material is expected to be moderately irritating.

Skin Sensitization:

This material is not known or reported to be a skin or respiratory sensitizer.

Acute Toxicity:

Subchronic / Chronic

Contact with eyes or skin causes irritation.

Not known or reported to cause subchronic or chronic toxicity.

Toxicity:

Reproductive and

Developmental Toxicity:

No reproductive or developmental risk to humans is expected from exposure

to this product.

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. However, this product contains crystalline silica and cristobalite. Both of these substances are classified by IARC (International Agency for research on Cancer) as group 1 carcinogens (carcinogenic to humans). The carcinogenicity concern arises from inhaling particles of inhalable size. The crystalline silica and cristobalite are carried in a granular clay carrier which has a particle size greater than 10 microns, which is not respirable. Therefore, this product is not an inhalation hazard and exposure would not be expected to pose a carcinogenic hazard., This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. This product contains a component that has been classified by the U.S. EPA as a "Group D" Carcinogen.

CRISTOBALITE (SIO2)

The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 1 substance, Carcinogenic to

Humans.

QUARTZ (SIO2)

The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 1 substance, Carcinogenic to

Humans.

# SECTION 12. ECOLOGICAL INFORMATION

Overview:

Moderately toxic to fish and other aquatic organisms., Highly / very toxic to

plants.

Ecological Toxicity Values - Product:

LC50 Believed to be approximately 1.6 mg/l (calculated)

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### **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.

Disposal Methods:

As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

### **SECTION 14. TRANSPORT INFORMATION**

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG-CODE

Not dangerous goods

### **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

Causes moderate eye irritation.

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

### **CERCLA Reportable Quantity**

Components	CAS-No.		Calculated
			product RQ
	1929-73-3	100	362

#### **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 12 (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 toxic pollutants listed under the U.S. Clean Water Act Section 307

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

27.6 %

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

27.6 %

### **US State Regulations**

### Massachusetts Right To Know

Cristobalite	
tridymite	

14464**-**46-1 15468-32-3

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Pennsylvania Right To Know

**Bentonite** 

1302-78-9

Quartz (SiO2)

14808-60-7

**New Jersey Right To Know** 

Bentonite

1302-78-9

Quartz (SiO2)

14808-60-7

Lignosulfonic acid, calcium

8061-52-7

salt

Cristobalite

14464-46-1

tridymite

15468-32-3

California Prop 65

WARNING! This product contains a chemical known to the

State of California to cause cancer.

tridymite

15468-32-3

Cristobalite

14464-46-1

Quartz (SiO2)

14808-60-7

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

TSCA

This is an EPA registered pesticide.

Navigate

Inventories

AlCS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZloC (New Zealand), PICCS (Philippines), TSCA (USA)

### **SECTION 16. OTHER INFORMATION**

SECTIONS REVISED:

First formulated version in SAP.

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.

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