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| 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 MSDS QUESTIONS & REQUESTS, CALL:          | 1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347) |

**PRODUCT NAME: AB SEPTICTRINE**

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Supplier**  
**Applied Biochemists (WI)**  
 W175 N11163 Stonewood Drive ,  
 Suite 234  
 Germantown, WI, 53022  
 United States

**Telephone: +12622554449**  
**Telefax: +12622554268**  
**Web: www.appliedbiochemists.com**

**REVISION DATE:** 12/14/2010  
**SUPERCEDES:** 05/20/2009

**MSDS Number:** 000000012456  
**SYNONYMS:**  
**CHEMICAL FAMILY:** None  
**DESCRIPTION / USE:** None established  
**FORMULA:** None established

**Manufacturer**  
**Advantis Technologies**  
 1400 Bluegrass Lakes Parkway  
 Alpharetta, GA 30004  
 United States of America

## 2. HAZARDS IDENTIFICATION

|                             |  |
|-----------------------------|--|
| OSHA Hazard Classification: | <b>This product is not considered to be hazardous under OSHA 29 CFR 1910.1200.</b> |
|-----------------------------|--|

Routes of Entry: This product will not exert a significant adverse effect to



Medical Conditions Aggravated: health from any route of exposure.  
None known.

Human Threshold Response Data

Odor Threshold Not established.

Irritation Threshold Not established.

**Hazardous Materials Identification System / National Fire Protection Association Classifications**

| <u>Hazard Ratings :</u> | <u>Health</u> | <u>Flammability</u> | <u>Physical / Instability</u> | <u>PPI / Special hazard.</u> |
|-------------------------|---------------|---------------------|-------------------------------|------------------------------|
| HMIS                    | 1             | 0                   | 0                             |                              |
| NFPA                    | 1             | 0                   | 0                             |                              |

Immediate (Acute) Health Effects

Inhalation Toxicity: Not expected to cause irritation. Not expected to be toxic by inhalation.

Skin Toxicity: Skin contact may cause mild reversible irritation consisting of transient redness.

Eye Toxicity: Contact may cause mild irritation consisting of transient redness, swelling, and mucous membrane discharge to the conjunctiva.

Ingestion Toxicity: Not expected to be toxic by ingestion. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Prolonged (Chronic) Health Effects

Inhalation: There are no known or reported effects from chronic exposure.

Skin Contact: There are no known or reported effects from chronic exposure.

Ingestion: There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.

Sensitization: Not expected to be a skin sensitizer.

Chronic Target Organ Toxicity: None known

Supplemental Health Hazard Information : No additional health information available.



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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| <u>CAS OR CHEMICAL NAME</u>     | <u>CAS #</u> | <u>% RANGE</u> |
|---------------------------------|--------------|----------------|
| Calcium Carbonate               | 1317-65-3    |                |
| Subtilisin                      | 9014-01-1    |                |
| QUARTZ (SiO <sub>2</sub> )      | 14808-60-7   |                |
| Diethyl Phthalate               | 84-66-2      |                |
| 1,4-β-D-glucan glucanohydrolase | 9000-90-2    |                |

### 4. FIRST AID MEASURES

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|               |   |
|---------------|---|
| Inhalation:   | IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.            |
| Skin Contact: | IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.                |
| Eye Contact:  | IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.                                 |
| Ingestion:    | IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person. |



## 5. FIRE FIGHTING MEASURES

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Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive

### Flammable Properties

Fire / Explosion Hazards: Will not burn  
Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
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.

## 6. ACCIDENTAL RELEASE MEASURES

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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: not applicable  
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 creating dust.  
Additional Spill Information : Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

## 7. HANDLING AND STORAGE

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Handling: Avoid contact with skin and eyes. Avoid breathing dust. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.  
Storage: Keep out of reach of children. Keep container closed when not in use. To maintain product quality, do not store in heat or direct sunlight. Keep tightly closed in a dry, cool and well-ventilated place.

Do Not Store At temperatures Above: 37 °C

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use local exhaust ventilation to maintain levels below exposure limits.

### 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 : Impervious gloves

Eye Protection: Safety glasses with side-shields

Protective Clothing Type: impervious clothing

### Exposure Limit Data

| <u>CHEMICAL NAME</u>       | <u>CAS #</u> | <u>Name of Limit</u> | <u>Exposure</u>  |
|----------------------------|--------------|----------------------|--|
| Calcium Carbonate          | 1317-65-3    | OSHA Z1              | 15 mg/m <sup>3</sup> TWA total dust  |
| Calcium Carbonate          | 1317-65-3    | OSHA Z1              | 5 mg/m <sup>3</sup> TWA respirable dust fraction   |
| Calcium Carbonate          | 1317-65-3    | OSHA Z1              | 15 mg/m <sup>3</sup> TWA Total dust  |
| Calcium Carbonate          | 1317-65-3    | OSHA Z1              | 5 mg/m <sup>3</sup> TWA respirable fraction  |
| Subtilisin                 | 9014-01-1    | ACGIH                | 0.00006 mg/m <sup>3</sup> Calculated as 100% pure crystalline enzyme CEIL Based on "high-volume" sampling. |
| Subtilisin                 | 9014-01-1    | ACGIH                | 0.00006 mg/m <sup>3</sup> as crystalline active enzyme C   |
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7   | OSHA Z3              | 8-hour time weighted average   |
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7   | OSHA Z3              | 8-hour time weighted average   |
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7   | OSHA Z3              | 8-hour time weighted average   |



|                            |            |            |  |
|----------------------------|------------|------------|--|
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7 | ACGIH      | 0.025 mg/m <sup>3</sup> TWA respirable dust fraction Respirable fraction; see Appendix C, paragraph C. |
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7 | ACGIH      | 0.025 mg/m <sup>3</sup> TWA Respirable fraction  |
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7 | OSHA Z1    |  |
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7 | NIOSH-IDLH | 25 mg/m <sup>3</sup>   |
| QUARTZ (SiO <sub>2</sub> ) | 14808-60-7 | NIOSH-IDLH | 50 mg/m <sup>3</sup>   |
| Diethyl Phthalate          | 84-66-2    | ACGIH      | 5 mg/m <sup>3</sup> TWA  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                                  |
|--|----------------------------------|
| Physical State:                        | solid                            |
| Form                                   | granular                         |
| Color:                                 | tan                              |
| Odor:                                  | citrus                           |
| Molecular Weight:                      | None established                 |
| Specific Gravity :                     | no data available                |
| pH :                                   | no data available                |
| Boiling Point:                         | not applicable                   |
| Freezing Point:                        | no data available                |
| Melting Point:                         | no data available                |
| Density:                               |                                  |
| Bulk Density:                          | 256 - 336 kg/m <sup>3</sup>      |
| Vapor Pressure:                        | not applicable                   |
| Vapor Density:                         | not applicable                   |
| Viscosity:                             | not applicable no data available |
| Solubility in Water:                   | no data available                |
| Partition coefficient n-octanol/water: | No data.                         |
| Evaporation Rate:                      | not applicable                   |
| Oxidizing:                             | None established                 |
| Volatiles, % by vol.:                  | not applicable                   |



VOC Content                      no data available  
HAP Content                      No data

## 10. STABILITY AND REACTIVITY

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Stability and Reactivity Summary:      Stable under normal conditions.  
Conditions to Avoid:                      Heat.  
Chemical Incompatibility:                Strong acids, Strong oxidizing agents, Heavy metals  
Hazardous Decomposition Products:    No hazardous decomposition products are known.  
Decomposition Temperature:            No data

## 11. TOXICOLOGICAL INFORMATION

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### Product Animal Toxicity

Oral LD50 value:                      Believed to be > 2,000 mg/kg

Dermal LD50 value:                    Believed to be > 2,000 mg/kg

Inhalation LC50                      No data.

value:

Skin Irritation:                      May cause mild skin irritation.

Eye Irritation:                      May cause mild eye irritation.

Skin Sensitization:                    Not believed to be sensitising to skin.

Acute Toxicity:                      There are no known or reported target organ effects from acute exposure.

Subchronic / Chronic                Not known or reported to cause subchronic or chronic toxicity.  
Toxicity:

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.



QUARTZ (SiO<sub>2</sub>)

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.

## 12. ECOLOGICAL INFORMATION

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Overview: There is no data available for this product.

## 13. DISPOSAL CONSIDERATIONS

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

Potential US EPA Waste Codes : not applicable

## 14. TRANSPORT INFORMATION

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL  
Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,



Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,  
Emergency Response Guide Number: Not applicable

## 15. REGULATORY INFORMATION

### UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

### Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

### Emergency Planning & Community Right to Know (40 CFR 355, App. A):

#### Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS\_SAR302 TPQ (threshold planning quantity) None established

#### Reportable Quantity (49 CFR 172.101, Appendix):

ZUS\_CERCLA Reportable quantity SODIUM PHOSPHATE, DIBASIC  
Value: 5,000lbs  
Diethyl phthalate  
1,2-Benzenedicarboxylic acid, diethyl ester  
Value: 1,000lbs

ZUS\_SAR302 Reportable quantity None established

### Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS\_SAR313 De minimis concentration None established

### Clean Air Act Toxic ARP Section 112r:

CAA 112R None established





New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

SODIUM PHOSPHATE, DIBASIC PHOSPHORIC ACID, DISODIUM SALT

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

CALCIUM CARBONATE LIMESTONE VALERITE MARBLE

**Massachusetts:**

| CAS #     | COMPONENT NAME     |
|-----------|--------------------|
| 7558-79-4 | Disodium Phosphate |
| 1317-65-3 | Calcium Carbonate  |

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

PHOSPHORIC ACID, DISODIUM SALT SODIUM PHOSPHATE, DIBASIC

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1994-04-01

CALCIUM CARBONATE LIMESTONE MARBLE DUST

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1991-07-01

MARBLE DUST

massachusetts hazardous substance

**California Proposition 65:**

| CAS #      | COMPONENT NAME |
|------------|----------------|
| 14808-60-7 | Quartz         |

ZUSCA\_P65

California Proposition 65. Safe drinking water and toxic enforcement act.

Silica, crystalline (airborne particles of respirable size)

Carcinogen



**applied biochemists**

an Arch Chemicals Inc., company

**MATERIAL  
SAFETY  
DATA  
SHEET**

California Proposition 65. Safe drinking water and toxic enforcement act.  
airborne particles of respirable size  
Silica, crystalline  
Carcinogen

**WHMIS Hazard Classification:**

Ingredient Disclosure List (WHMIS)  
2007-08-24  
Threshold limits: 0.1 Weight percent  
1417  
Diethyl phthalate

## 16. OTHER INFORMATION

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MSDS REVISION STATUS :

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. .