

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: APPLIED BIOCHEMISTS FILTER BLASTER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<u>Supplier</u>

Applied Biochemists 1400 Bluegrass Lakes Parkway,

Alpharetta, GA, 30004

USA

Telephone: +17705215999 Telefax: +17705215999

Web: www.poolspacare.com

Manufacturer

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

REVISION DATE: 05/26/2015 SUPERCEDES: 04/28/2011

MSDS Number: 000000024470

SYNONYMS:

CHEMICAL FAMILY: None

DESCRIPTION / USE None established FORMULA: None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity -

single exposure

Category 3 (Respiratory system)

GHS Label element

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Hazard pictograms :





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**

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

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER

or doctor/ physician.

P312 Call a POISON CENTER or doctor/ physician if you feel

unwell.

P332 + P313 If skin irritation occurs: 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 OR CHEMICAL NAME CAS #

Butoxyethanol 111-76-2

<u>% RANGE</u> 3 - 13

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0 - 7

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.- 9016-45-9 0 - 10

(NONYLPHENYL)-. ETIDRONIC ACID

Citric Acid

2809-21-4 0 - 9

SECTION 4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing

77-92-9

becomes difficult or if respiratory irritation develops.

Skin Contact: IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing

comes in contact with the product, the clothing should be removed immediately

and laundered before re-use. Seek medical attention if irritation develops.

Eye Contact: IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes.

Seek medical attention immediately.

Ingestion: IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless

directed to do so by a physician. Never give anything by mouth to an unconscious

person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Combustible above 93 deg. C / 200 deg. F.

Flammable Properties

Flash Point: > 93.5 °C

Fire / Explosion Hazards: Material may be ignited if preheated to temperatures above the flash

point in the presence of a source of ignition.

Extinguishing Media: Use dry chemical, water fog, carbon dioxide (CO2), or foam.

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.

SECTION 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:

Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of

Water Release:

This material is soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and

safe to do so.

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). After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to

waterways.

Additional Spill Information:

Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

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 breathing

mist or vapor.

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

incompatible materials. Avoid freezing.

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

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., A NIOSH approved air purifying respirator with organic vapor cartridge and N95 particulate filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations

exceed ten (10) times the published limit.

Avoid contact with skin. Impervious gloves Skin Protection:

Eye Protection: Chemical resistant goggles must be worn. Face-shield

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Protective Clothing Type: impervious clothing

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)
Butoxyethanol (111-76-2)	TWA	20 ppm	ACGIH (02 2014)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form No data.
Color: No data.
Odor: No data.

Molecular Weight: None established

pH: 1.0 - 3.0

()

Boiling Point: 215.1 °F (101.7 °C)

Melting point/freezing

point

No data

Density Not applicable

Bulk Density: ()

no data available

Vapor Pressure: 22.7 hPa

Vapor Density: 0.6

Viscosity: no data available Solubility in Water: soluble in cold water

Partition coefficient n-

octanol/water:

No data.

Evaporation Rate: 1

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 Not applicable

SECTION 10. STABILITY AND REACTIVITY

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Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: Heat, flames and sparks.

Chemical Incompatibility: Strong oxidizing agents, Strong acids, alkalis Hazardous Decomposition Products: Carbon oxides, Nitrogen, Aldehydes, Ketones

Decomposition Temperature: No data

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Butoxyethanol LD50 = 1,590 mg/kg Rat POLY(OXY-1,2- LD50 = 4,000 mg/kg Rat

ETHANEDIYL),

.ALPHA.-

(NONYLPHENYL)-.

ETIDRONIC ACID LD50 = 1,440 mg/kg Rat Citric Acid LD50 = 3,000 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

Butoxyethanol LD50 = 580 mg/kg Rabbit POLY(OXY-1,2- LD50 > 2,000 mg/kg Rabbit

ETHANEDIYL),

.ALPHA.-

(NONYLPHENYL)-.

ETIDRONIC ACID LD50 > 4,764 mg/kg Rabbit

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

Component Animal Toxicology

Inhalation LC50 value:

Butoxyethanol LC50 4 h = 486 ppm Rat male

LC50 4 h = 450 ppm Rat female

POLY(OXY-1,2- Inhalation LC50 No data

ETHANEDIYL),

.ALPHA.-

(NONYLPHENYL)-.

ETIDRONIC ACID No data

Citric Acid no data available

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Product Animal Toxicity

<u>Oral LD50 value</u>: LD50 Believed to be > 3,700 mg/kg Rat <u>Dermal LD50 value</u>: LD50 Believed to be > 1,700 mg/kg Rabbit

Inhalation LC50 no data available

value:

Skin Irritation: Moderate skin irritant
Eye Irritation: Corrosive to eyes

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

Acute Toxicity: This product is corrosive to the eyes, moderately irritating to the skin and upon

inhalation, may cause irritation to mucous membranes and respiratory tract.

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:

Butoxyethanol High dose levels of this chemical produced maternal

toxicity, and embryolethality and fetal malformations.

ETIDRONIC ACID This product has been tested and was shown not to

produce any adverse effects on reproductive function or fetal development when administered to laboratory

animals.

Citric Acid This chemical has been tested in laboratory animals

and there was no evidence of reproductive toxicity or

teratogenicity.

Mutagenicity: Not known or reported to be mutagenic.

Butoxyethanol This material has been shown to be non-mutagenic in

the majority of a battery of assays. Not expected to be a

mutagenic hazard.

ETIDRONIC ACID This chemical has been tested and was shown to be

non-mutagenic.

Citric Acid This product was determined to be non-mutagenic in

the Ames assay. It was also shown to be negative in

the Dominant lethal assay.

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

source including IARC, OSHA, NTP or EPA.

Butoxyethanol This material has been classified by the U.S. EPA as a

"Group C" carcinogen (Suggestive Human Carcinogen), based on equivocal and limited evidence in laboratory animals. The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans.

ETIDRONIC ACID This product is not known or reported to be carcinogenic

by any reference source including IARC, OSHA, NTP or

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EPA. Chemicals of similar structure have been shown not to cause cancer in laboratory animals.

The carcinogenicity has been evaluated through animal

study and it was found not to be carcinogenic.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Practically non- toxic to fish and other aquatic organisms.

Ecological Toxicity Values - Product:

Citric Acid

EC50 Believed to be approximately 1,100 mg/l (calculated)

Ecological Toxicity Values for: Butoxyethanol

Lepomis macrochirus (Bluegill static test 96 h LC50 = 1,490 mg/l

sunfish)

Brine shrimp static test 24 h LC50= 1,000 mg/l

Daphnia magna (Water flea) static test 48 h EC50> 1,000 mg/l

Crangon crangon (shrimp) 48 h LC50= 800 mg/l

Ecological Toxicity Values for: ETIDRONIC ACID

Bluegill -96 h LC50 = 868 mg/l

Rainbow trout (Salmo gairdneri), 96 h LC50 = 368 mg/lChannel Catfish (Ictalurus 96 h LC50 = 695 mg/l

punctatus rafinesque).

Sheepshead minnow 96 h LC50 = 2,180 mg/l

> 48 h EC50= 527 mg/l Daphnia magna,

Grass shrimp 96 h LC50= 1,770 mg/l Oyster Shell Deposition 96 h EC50= 89 mg/l

Oral LD50 > 2,510 mg/kg Mallard duck

Bobwhite quail Oral LD50 > 2,510 mg/kg

Ecological Toxicity Values for: Citric Acid

Lepomis macrochirus (Bluegill -(static). 96 h LC50 = 1,516 mg/l

sunfish)

Daphnia magna (Water flea) -72 h EC50Approximately 120 mg/l

SECTION 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 meets the criteria of a hazardous

waste as defined under 40 CFR 261 and would have the following

EPA hazardous waste number: D002.

Disposal Methods: As a hazardous liquid waste it must be disposed of in accordance

with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

UN number : 3265

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

(Etidronic acid)

Class : 8
Packing group : III
Labels : 8

IATA

UN number : 3265

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

(Etidronic acid)

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 : 3265

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

(Etidronic acid)

Class : 8

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

SECTION 15. REGULATORY INFORMATION

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

SARA 302

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

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Poly(oxy-1,2ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-

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

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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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

2-Butoxyethanol 111-76-2

Pennsylvania Right To Know

2-Butoxyethanol 111-76-2 Poly(oxy-1,2-ethanediyl), 9016-45-9

.alpha.-(nonylphenyl)-.omega.-hydroxy-

Etidronic acid 2809-21-4

New Jersey Right To Know

2-Butoxyethanol 111-76-2 Poly(oxy-1,2-ethanediyl), 9016-45-9

.alpha.-(nonylphenyl)-.omega.-hydroxy-

Etidronic acid 2809-21-4 Citric acid 77-92-9

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 : The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL

(Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 5

Major References : Available upon request.

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