

## SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

### APPLIED BIOCHEMISTS FILTER BLASTER

Version 2.0

Revision Date 2020.03.12

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#### SECTION 1. IDENTIFICATION

Product name : APPLIED BIOCHEMISTS FILTER BLASTER

##### Manufacturer or supplier's details

Company : Innovative Water Care, LLC  
1400 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004

Telephone : 1-800-511-6737 (Outside the USA: 1-423-780-2347)  
E-mail address : sds@sigurawater.com  
Emergency telephone number : 1-800-654-6911 (Outside the USA: 1-423-780-2970)

##### Recommended use of the chemical and restrictions on use

Recommended use : Cleaning agent

#### 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 elements

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.

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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/ doctor 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/ doctor.

P312 Call a POISON CENTER/ doctor 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.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

**Hazardous components**

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
2-Butoxyethanol	111-76-2	5 - 10
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	5 - 10
Etidronic acid	2809-21-4	3 - 5
Citric acid	77-92-9	1 - 3

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### SECTION 4. FIRST AID MEASURES

If inhaled : IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.

In case of 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 reuse.

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- re-use. Seek medical attention if irritation develops.
- In case of eye contact : IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
- If swallowed : 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.
- Most important symptoms and effects, both acute and delayed : None known.

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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use dry chemical, water fog, carbon dioxide (CO<sub>2</sub>), or foam.
- Specific hazards during firefighting : Material may be ignited if preheated to temperatures above the flash point in the presence of a source of ignition.
- Further information : 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.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.  
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.  
For disposal considerations see section 13.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Do not flush into surface water or sanitary sewer system.

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe 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.
- Conditions for safe storage : Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Avoid freezing.
- Materials to avoid : Refer to Section 10, "Incompatible Materials."

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		REL	5 ppm 24 mg/m <sup>3</sup>	NIOSH/GUIDE

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-Butoxyethanol	111-76-2	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	Sampling time: End of shift.	200 mg/g	ACGIH BEI

- Engineering measures** : 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.

#### Personal protective equipment

- 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.

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Hand protection

Remarks	:	Avoid contact with skin. Impervious gloves
Eye protection	:	Chemical resistant goggles must be worn. Face-shield
Skin and body protection	:	Impervious clothing
Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	no data available
Odour	:	no data available
Odour Threshold	:	no data available
pH	:	1.0 - 3.0
Melting point/freezing point	:	no data available
Boiling point/boiling range	:	215.1 °F / 101.7 °C
Flash point	:	> 200.3 °F / 93.5 °C
Evaporation rate	:	1
Flammability (solid, gas)	:	Combustible above 93 deg. C / 200 deg. F.
Flammability (liquids)	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	22.7 hPa
Relative vapour density	:	0.6
Relative density	:	1.138 (68 °F / 20 °C)
Density	:	Not applicable
Bulk density	:	no data available

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Water solubility	:	soluble in cold water
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available

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### SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Stable under normal conditions.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents Strong acids Alkalis
Hazardous decomposition products	:	Carbon oxides Nitrogen Aldehydes Ketones

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### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure :

Eyes  
Skin  
Ingestion  
Inhalation

#### Acute toxicity

Acute oral toxicity	:	LD50 (Rat): Believed to be > 3,700 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): Believed to be > 1,700 mg/kg
Acute toxicity (other routes of administration)	:	Remarks: This product is corrosive to the eyes, moderately

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irritating to the skin and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

### **Skin corrosion/irritation**

Remarks: Moderate skin irritation

### **Serious eye damage/eye irritation**

Result: Corrosive to eyes

### **Respiratory or skin sensitisation**

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

### **Carcinogenicity**

#### **IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **ACGIH**

Confirmed animal carcinogen with unknown relevance to humans

2-Butoxyethanol

111-76-2

### **Repeated dose toxicity**

Remarks: Not known or reported to cause subchronic or chronic toxicity.

### **Further information**

Remarks: no data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxicity to fish

: EC50: Believed to be approximately 1,100 mg/l  
Method: Calculation method

### **Persistence and degradability**

no data available

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### Bioaccumulative potential

#### Components:

#### Citric acid:

Partition coefficient: n-octanol/water : log Pow: -1.72 (20 °C)  
Method: OECD Test Guideline 107

#### Mobility in soil

no data available

#### Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Practically non- toxic to fish and other aquatic organisms.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : 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.  
As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

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## SECTION 14. TRANSPORT INFORMATION

DOT : Not dangerous goods

UN number : Not applicable  
Proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable



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### TDG

**UN number** : 3265  
**Proper shipping name** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(1-Hydroxyethylidene-1,1-diphosphonic acid)  
**Transport hazard class** : 8  
**Packing group** : III  
**Labels** : 8  
**Environmental hazards** : no

### IATA

**UN number** : 3265  
**Proper shipping name** : Corrosive liquid, acidic, organic, n.o.s.  
(1-Hydroxyethylidene-1,1-diphosphonic acid)  
**Transport hazard class** : 8  
**Packing group** : III  
**Labels** : 8  
**Environmental hazards** : no

### IMDG

**UN number** : 3265  
**Proper shipping name** : Corrosive liquid, acidic, organic, n.o.s.  
(1-Hydroxyethylidene-1,1-diphosphonic acid)  
**Transport hazard class** : 8  
**Packing group** : III  
**Labels** : 8  
**EmS Number 1** : F-A  
**EmS Number 2** : S-B  
**Environmental hazards** : Marine pollutant: no

### ADR

**UN number** : 3265  
**Proper shipping name** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(1-Hydroxyethylidene-1,1-diphosphonic acid)  
**Transport hazard class** : 8  
**Packing group** : III  
**Classification Code** : C3  
**Hazard Identification Number** : 80  
**Labels** : 8  
**Environmental hazards** : no

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### RID

<b>UN number</b>	: 3265
<b>Proper shipping name</b>	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-Hydroxyethylidene-1,1-diphosphonic acid)
<b>Transport hazard class</b>	: 8
<b>Packing group</b>	: III
Classification Code	: C3
Hazard Identification Number	: 80
Labels	: 8
<b>Environmental hazards</b>	: no
<b>Special precautions for user</b>	: none
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	: Not applicable

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### SECTION 15. REGULATORY INFORMATION

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

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

##### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

##### SARA 313

Components	CAS-No.	Concentration
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	5 - 10 %

##### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Components	CAS-No.	Concentration
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	5 - 10 %

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).



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The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
2-Butoxyethanol	111-76-2	5 - 10 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

### Clean Water Act

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

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 toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

Components	CAS-No.
2-Butoxyethanol	111-76-2

#### Pennsylvania Right To Know

Components	CAS-No.
2-Butoxyethanol	111-76-2
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9
Etidronic acid	2809-21-4

#### New Jersey Right To Know

Components	CAS-No.
2-Butoxyethanol	111-76-2
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9
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.

### Canadian lists

#### NPRI

Components	CAS-No.
2-Butoxyethanol	111-76-2
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9

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### 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.

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## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH : US. ACGIH Threshold Limit Values  
ACGIH BEI : US. ACGIH. BEIs. Biological Exposure Indices, as amended  
NIOSH/GUIDE : US. NIOSH: Pocket Guide to Chemical Hazards, as amended

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Date format : yyyy/mm/dd

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