



Catalog AQ 309 BG Part #12376, 12377

### **Matrices and Detection Ranges:**

Matrix Group ID	Protocol	Results reported in the range of:	Limit of Detection (LOD)*	Highest Approved Level*
Matrix Group ID	Base Range	0 - 30 ppb	2.7 ppb	30 ppb
AF MG1 - Corn	Dilution A	0 ->100 ppb	30 ppb	100 ppb
	Dilution B	0 - >300 ppb	100 ppb	300 ppb

<sup>\*</sup>Do not assume accuracy for results reported below the protocol's LOD or above the protocol's highest approved level.

### **Important Notes:**

- Before testing, the enclosed Multi-Matrix Barcode Card (MMBC) must be scanned just once for each kit lot to upload information to the QuickScan
- QuickScan Software Version 4.9.4 Update 3 or later is required

Table A on Page 11 is provided as a Summary Guide for testing. More details for each step in the process are described below and are important for achieving optimal, accurate results.

#### **Contents of Kit:**

- 50 QuickTox Strips packed in a moisture-resistant canister
- 50 EB17 dissolvable pouches (1 pkt per 25g sample)
- 50 reaction tubes
- 100 pipette tips (1-200 μL)
- DB5 Buffer
- Multi-Matrix Barcode Card kit lot specific

### **Items Not Provided:**

- QuickScan System\*
- Incubator base\*
- Incubator block\*
- Bunn grinder or equivalent
- 20-mesh screen (available through Seedburo or other vendor)
- Digital scale for weighing samples
- Extraction cups with lids\* or other suitable vessels for sample extraction
- Graduated cylinder\*
- Orbital/rotary shaker
- Pipette to deliver 100 μL\*
- Pipette to deliver larger volumes (>200 μL to 1 mL) for dilutions\*
- Timer
- Scissors
- Distilled, deionized or bottled water

\*Available as Accessories

Available Accessories	:	
Item	Catalog No.	Part #
QuickScan <sup>TM</sup> System	ACC 131	10050 + 10198
5 oz Sample cups/lids Case of 500; for extracting samples up to 30g	20-0047	10167
10 oz Sample cups/lids Case of 100; for extracting samples >30g	20-0129	12383
Graduated cylinder (100mL)	ACC 068	11207
MiniPet pipette 100 μL (one/location free)	ACC 041	11202
Coffee filters (100)	ACC 083	11434
Centrifugation Set: Disposables for 50 tests	ACC 010	11214
Microcentrifuge	ACC 064 E	11204
50g Sample Extraction Set: Additional EB17 dissolvable pouches and sample cups (enough for 100 tests)	ACC 099	12409
1 mL adjustable pipette	ACC 1303-PRO-1000	11964
Pipette tips for 1 mL pipette (50)	20-0127	12243
Incubator	ACC BSH301	12458

### Intended Use

Aflatoxin Flex is designed to quickly provide quantitative results for the presence of total aflatoxins.

- Limit of detection (LOD) = 2.7 ppb (Base Range protocol)
- Assay range = 2.7 300 ppb, following three different protocols for the sub-ranges defined below.
  - 2.7 30 ppb (Base Range protocol)
  - 30 100 ppb (Dilution A protocol)
  - 100 300 ppb (Dilution B protocol)

### How the Test Works

A composite sample is first collected, ground, and extracted to solubilize any aflatoxin present. The extract is further diluted into Buffer before being run on the QuickTox test strip.

Each QuickTox Strip has an absorbent pad at each end. The sample extract travels up the test strip and is absorbed into the larger pad at the top of the strip. At the end of the reaction time, the strip is cut at the top of the arrow tape, the bottom pads are discarded, and the strip is inserted into the QuickScan reader to obtain quantitative results.

Matrix specific extractions and analysis protocols are chosen for accuracy and precision. Each matrix is assigned to a Matrix Group (MG). Each MG has a common standard curve, Limit of Detection (LOD), and maximum reported value. When the user selects the MG during testing, the QuickScan System software reads the test strip, retrieves information encoded in the strip's barcode and on the Multi-Matrix Barcode Card (MMBC), and uses the appropriate curve to obtain a result for the matrix being tested.

### **Precautions – Read First!**

#### **SAFETY**

- 1. Disposal of aflatoxin-contaminated materials.
  - a. Follow your facility's safety procedures for disposal of samples and extracts potentially containing or known to contain aflatoxin.
- 2. EB17 Dissolvable Pouches contain powder that is flammable and an irritant. See attached Safety Data Sheet.
  - a. If the pouches are damaged, avoid inhaling powder or contact with the skin, eyes, or clothing. Wear personal protective equipment including safety glasses, gloves, mask and lab coat when handling. Keep powder away from heat, sparks and open flame.
  - b. Observe any applicable regulations when disposing of extracted samples and kit reagents.
  - c. Do not treat either the EB17 extracts or the EB17 extraction labware with bleach; the Extraction Pouch powder is incompatible with strong oxidizers.

#### **GENERAL**

- 1. The intended user should read the entire product instructions, including all safety precautions, before use of this kit. The operator should be capable of using common testing equipment including an appropriate grinder or mill, pipettes, graduated cylinders, etc. Training on use of this product and the QuickScan System is available from EnviroLogix.
- 2. Test strip canisters are desiccated; before opening canisters, ensure they have warmed to room temperature. After removing test strips, reseal the canister immediately. Avoid bending test strips.
- 3. Ensure all samples, extraction reagents (including water), test strips, and Buffer are at room temperature before use.
- 4. As soon as water is added to the sample containing dissolvable EB17 pouches, the sample must be shaken immediately in a hard-walled container to prevent the extraction powder from clumping and not going into solution.
- 5. Test extracts within 5 minutes of diluting with Buffer for optimal performance.

# **Sample Preparation**

1. Collect a composite sample according to your own sampling plan or USDA/GIPSA guidelines. Consult USDA/GIPSA reference documents to help design a plan that fits your needs. Contact Technical Support for more information.

- 2. Grind samples to provide a consistency such that 95% passes through a 20-mesh sieve.
- 3. Mix ground material thoroughly before sub-sampling, to minimize variability.
- 4. Weigh 25g or 50g samples into **hard-walled** containers that will allow enough head room for the liquid to move forcefully when shaken vigorously.

### Sample Clarification

Depending on the sample matrix, there may be multiple acceptable methods for removing particulate from the extract.

	Centrifugation	Filtration		
1.	Fill a microcentrifuge tube with extract.	1.	Add an approved coffee filter (e.g. BUNN Part	
2.	Centrifuge for the specified time at $2000 \times g$ (ref, <u>not rpm</u> ).		#BUNBCF100B) to a clean vessel.	
3.	Use the top layer of extract.	2.	Pour extract into the filter. Wait 2 min.	
		3.	Pull back the filter to access the filtered extract.	

# **Testing in Base Range**

Refer to Matrix Group instructions (page 6) or Summary Table A (page 11) for base range testing.

# Range with Dilution

### For testing samples at levels greater than 30 ppb (> 30 ppb in Base Range)

- 1. If after running and reading the test, the initial result is greater than the upper end of the Base Range, samples can be diluted and retested to extend quantitation (see table on p.1).
- 2. Prepare Dilution Solution by dissolving one EB17 pouch in 150 mL distilled/deionized water. Label, date, and document the preparation. This is not a clear solution and can be stored at ambient temperature for 30 days. Thoroughly mix before use.
- 3. Dilution A: 30 100 ppb

Mix 400 μL Dilution Solution + 100 μL clarified extract. Save this diluted extract.

- 3a. Rerun assay as before (see page 6). Example: for corn, pipette  $100~\mu L$  DB5 +  $100~\mu L$  of the diluted extract into a new reaction tube; place tube in  $22^{\circ}C$  incubator for  $2~\text{min}^{\wedge}$ , add a new test strip, and wait 4 minutes for test results.
- 3b. In the QuickScan Results Screen, use the dilution tab pull down menu to select Dilution A (1:A). The System will adjust and display the aflatoxin level from diluted samples. Adjusted results are valid in the range of 30 100 ppb.

# For testing samples that read greater than 100 ppb in the Dilution A protocol (after selecting 1:A from the Dilution Tab)

4. Dilution B: 100 – 300 ppb

Mix 200 μL Dilution Solution + 100 μL diluted extract from Step 3 above.

- 4a. Rerun assay as in Step 3a above.
- 4b. In the QuickScan Results Screen, use the dilution tab pull down menu to select Dilution B (1:B). The System will adjust and display the aflatoxin level from diluted samples. Adjusted results are valid in the range of 100 300 ppb.

 $<sup>^{\</sup>wedge}$  The tube acclimation step is only required if the temperature of the testing environment is unknown or outside of 20 - 24°C (68 - 75°F).

# Use of the QuickScan System

Detailed instructions for use of the QuickScan System are supplied with each unit, and can also be found at <a href="https://www.envirologix.com/quickscan">www.envirologix.com/quickscan</a>. The lot-specific Multi-Matrix Barcode Card (MMBC) must be scanned into the system prior to testing.

In summary, a strip is inserted face down in the carrier with the barcoded end closest to the handle. The carrier is inserted into the reader and the strips are read by touching or clicking on the "Read Test" area of the screen. The "Select Matrix Groups" screen will appear if more than one barcode was scanned into the system from the MMBC. Select the group that displays the matrix run. Results are then recorded in an electronic worksheet, allowing each user to report and track data easily.

# Kit Storage

This QuickTox Kit should be stored refrigerated. Note the shelf life on the kit box. Prolonged exposure to high temperatures may adversely affect the test results; protect all components from extreme hot or cold temperatures. Do not leave in direct sunlight or in a vehicle. Do not open the desiccated canister until ready to use the strips.

# **Cross-reactivity**

The following mycotoxins have been tested with this kit and no false positive results occurred at the 200 ppm level: DON (deoxynivalenol), Fumonisin B<sub>1</sub>, Ochratoxin A, Zearalenone.

### **Notes**

- This product is currently not applicable for use in testing any other crops beyond those specified in this Product Insert.
- This assay is calibrated against reference samples supplied by Trilogy Analytical Laboratory, Washington, MO, and other vendors and associated HPLC data.
- As with all screening tests, it is recommended that results be confirmed by an alternate method when necessary.
- The assay has been optimized for use with the protocols provided in the kit. Deviation from these protocols may invalidate the results of the test. Room temperature components, proper and thorough mixing, timing, and accurate pipetting are essential to accurate results.
- The results generated through the proper use of this diagnostic tool reflect the condition of the working sample directly tested. Extrapolation as to the condition of the originating lot, from which the working sample was derived, should be based on sound sampling procedures and statistical calculations which address random sampling effects, non-random sampling effects and assay system uncertainty. A negative result obtained when properly testing the working sample does not necessarily mean the originating lot is entirely negative for the analyte in question.

### **AF MG1: Corn Procedure:**

- Review Sample Preparation on page 3 for grinding consistency and notes.
- Turn on the incubator and set to 22°C for a minimum of 10 minutes before testing. Ensure that the temperature display has stabilized and indicates "OK" before starting the assay. All reagents should be at room temperature.
- Use distilled, deionized, or flat (non-carbonated) bottled water. Drinkable (potable) tap water may be used, with customer validation of water supply. Contact Technical Support to purchase a control set and protocol that can be used to verify your water supply.
- If testing 50-gram samples, additional EB17 Buffer pouches are required (50g Sample Set, order Catalog No. ACC-099).

### **Sample Extraction**

	25g	Add 1 EB17 pouch to sample Add 75 mL water	Wet sample immediately, by vigorously shaking for 10 seconds by hand. If needed, shake the sample against the palm
Corn	50g	Add 2 EB17 pouches to sample Add 150 mL water	of your other hand or a hard surface to loosen up any dry sample areas.  Immediately proceed to next shaking step.

Shake: choose mechanical shaker or hand shaking

Clarify Extract: choose centrifuge or filter

Centrifuge:30 seconds<br/>at 2000 x g (rcf, not rpm)Filter: Pour through approved<br/>coffee filter (ACC 083); wait<br/>no more than 2 min

### **Combine Buffer and Extract, then Run Test Strips**

- 1. Add  $100 \mu L$  DB5 to the reaction tube (discard tip)
- 2. Add 100 µL clarified extract to the reaction tube
- 3. Mix thoroughly with extract pipette tip, discard tip
- 4. Place the reaction tube in the 22°C incubator; equilibrate for 2 minutes

  Note: tube acclimation step is only required if the temperature of the testing environment is unknown or outside of 20 24°C (68 75°F)
- 5. Add test strip to tube, arrows down, wait for run time 4 minutes
- 6. Immediately cut strips at the top of the arrow tape (discard bottom pads)
- 7. Insert strip, barcode face down, into QuickScan Reader

#### TIPS!

### **Get Complete Extraction**

- Fully wet samples before the next shaking step
- Avoid delay between water addition and shaking
- Assure liquid is moving forcefully though the sample while shaking

### **For Best Performance**

- Pipette up and down while mixing
- Do not reuse diluted samples
- Read strips promptly after run time

#### **Avoid Contamination**

- Use a new reaction tube per test
- Keep DB5 capped, when possible
- Use new pipette tips for each step



# For Technical Support Contact Us At:

### **EnviroLogix**

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website: www.envirologix.com



### LIMITED WARRANTY

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THIS WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of EnviroLogix shall be to repair or replace the defective Products in the manner and for the period provided above. EnviroLogix shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise. Under no circumstances, whether based on this Limited Warranty or otherwise, shall EnviroLogix be liable for incidental, special, or consequential damages.

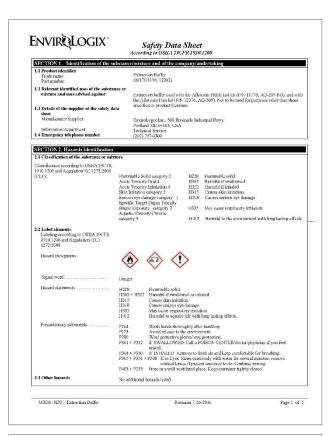
This Limited Warranty states the entire obligation of EnviroLogix with respect to the Products. If any part of this Limited Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.

### License

EnviroLogix has developed this kit using proprietary reagents.

EnviroLogix, the EnviroLogix logo, QuickTox, and QuickScan are trademarks of EnviroLogix Inc.

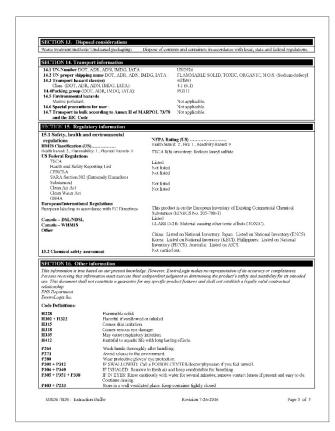
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	Information not relevant							
3.2 Vixtures	Extraction Researt Pow	Extraction Reagent Powder (EB17)						
	Chemical name	CAS No	EC No	Amount (%)	Classification OSHA 29CFR1910.1200			
	Sodium Lauryl Sulfate	151-21-3	205-788-1	60 to 85	OSHA 29, FRED 128; Acute Tox. On H302; Acute Tox. Inhal. 4 H322; 3 Init. 2 H315; Eye Dam. 1 H318; STOT SE 3 Resp. H335; Aquatic Chronio 3 H412;			
	Renzenesulfonic Acid, 4  –C13 sec-Alkyl Derivativ		287-494-3	1.5 to 2	Acute Tex. 4 H302; Skin Corr. 1C H311; Aquatic Tex. Chronic 3 H412			
	The full text of hazard (	H) statements is sh	own in section	n 16				
SECTION 4: FIE	ST AID MEASURES							
4.1 Description of f								
After inhalation	and and and and	If inhaled, remove difficult, give exyg			ve artificial respiration. If breathing is distrely.			
Atlar skin contac	d	Flush skin with we elething and shoes	ter. Cover the . Cold water r	irritated skin with nay he used. Was	t an emollient. Remove contaminated h clothing before reuse.			
After eye contact		Check for and ram plenty of water for	ove any centar at least 15 mir	ot lenses. In ease nutes. Seek medic	of contact, immediately flush eyes with all attention if imitation develops.			
After swellowing		of this material are	swallowed, ca	dl a physician irm	by medical personnel. If large quantiti mediately. Loosen tight elething such g by mouth to an unconscious person.			
4.2 Most important acute and delay	symptoms and effects, both ed	Difficulty breathin Do NOT induce ve of this material are	eniting unless	directed to do so	by medical personnel. If large quantiti			
		or this material are	swallowed, ca	dl a physician im	mediately.			
	y immediate medical secial treatment needed.	No special treatme		dl a physician im	modiately.			
attention and sp	ecial treatment needed.			dl a physician im	mediately.			
attention and sp	ecial treatment needed.			dl a physician im	modiately.			
attention and sp	ecial treatment needed.  Fighting measures	No special treatme	on is required		nechately.  ARGE FIRE: Use water spray, fog or			
SECTION 5. Fire 5.1 Extinguishing a Suitable exting	ecial treatment needed.  Fighting measures	No special treatme	on is required  Use ERY che se water jet.	mical powder. L.	ARGE FIRE: Use water spray, fog or			
SECTION 5. Fire 5.1 Extinguishing a Suitable exting 5.2 Special hazards mixture:	ictal treatment needed.  fighting measures  actia acting agents sarising from the substance or	No special treatme  SMALL FIRE: foam. Do not us  When heated to  Wear approprial	Use ERY che se water jet. decomposition	ntical powder. L/	ARGE FIRE: Use water spray, fog or			
SECTION 5. Fire  5.1 Extinguishing a Suitable exting: 5.2 Special hazards mixture: 5.3 Advice for firef Protective equit	ictal treatment needed.  fighting measures  actia acting agents sarising from the substance or	No special treatme  SMALL FIRE: foam. Do not us  When hested to  Wear appropriat for threfighting i	Use ERY che se water jet. decomposition	ntical powder. L/	ARGE FIRE: Use water spray, fog or mes of sulfar oxides, and sodium oxide ting self-contained breathing apparatus			
attention and sp SECTION 5. First 5.1 Estinguishing or Suitable exting: 5.2 Special hazards mixture: 5.3 Advice for firef Protective equi SECTION 6: ACC 6.1 Personal presan	redal treatment needed.  fightling measures  redal  additing agents  arising from the substance or  tighters  ment.  GIDENTAL RELEASEMI  tiffons, protective equipment	No special treatment of the special treatment	Use ERY clies se water jet, decomposition to PPE for fire f necessary. U	ntical powder. L/s it emits toxic fus conditions includes water spray to	ARGE FIRE. Use water spray, fag or mes of sulfar orders, and sodium oxide ting self-contained treathing apparatus cool inneperted containers.			
attention and sp SECTION 5. First 5.1 Extinguishing in Suitable exting 5.2 Special hazards mixture: 5.3 Advice for firef Protective equip	redal treatment needed.  fightling measures  redal  additing agents  arising from the substance or  tighters  ment.  GIDENTAL RELEASEMI  tiffons, protective equipment	No special treatme  SMALL FIRI: from Do not to  When hested to  Wear approprial free tire fighting to  EASURES  Use persexual prof	use ERY che se water jet. decomposition to PPE for fire fracersary. U	ntical powder. LA tit emits toxic fu cereditions includes water spray to ent. Avoid dust fi t. Remove all son	ARGE FIRE: Use water spray, fog or mes of sulfar oxides, and sodium oxide ting self-contained breathing apparatus			
attention and sy SECTION 5. First 5.1 Extinguishing a Suitable exting 5.2 Special hazards mixture: 5.3 Advice for first Protective equi SECTION 6: AC 6.1 Personal precat and emergency	incial treatment needed.  If thing measures  read  insting agents:  arising from the substance or  lighters  manner.  CIDENTAL RELEASE NI  Iffons, protective equipment  procedures:	No special treatme  SMALL FIRE: Soun. De not us  When hested to  Wear appropriat for tirefighting i  EASURES  Lee persental proof gas. Assure adequate safe area. Avoid to	use DRY clue use DRY clue se water jet. decemposition fe PPE for fine fracerseary. U tective equipm and ventilates creating data.	ntical powder. LA it emits toxic fur conditions includes water spruy to ent. Avoid dust fit. Remove all sou age if safe to do sa	ARGE TIRE. Use water spray, fag or tres of sulfar oxides, and sodium oxide ing self-contained treathing apparatus coel unsperaed containers. streaming Award brasiling supports mad- trees of rignition. Howeauto personnel to the product personnel to the per			
attention and sy SECTION 5. First S.1 Extinguishing a Suitable exting Suitable exting \$2.2 Special hazards mixture: \$3.3 Advice for firef Protective equi \$5.4 Personal precat and emergency \$6.2 Environmental	incial treatment needed.  If thing measures  read  insting agents:  arising from the substance or  lighters  manner.  CIDENTAL RELEASE NI  Iffons, protective equipment  procedures:	No special treatment SMALL FIRE: Som. Do not us When hested to Wear approprial for threighburg is EASURES Lee posteral process gas. Assure adequate area. Aword I Prevent further to Sweapp up and als sources. Call for	Use DRY chiese water jet.  Use DRY chiese water jet.  decorreposition  to PPE for fine f necessary. U  tectivo equipm  and oventilaster  creating discl.  akage or spilla  e environment  ovel. Prevent e  assistance on  sypreading of	ntical powder. L/ it emits toxic fur conditions includes se water spray to ent. Avoid dust far. Remove all sou get if saft to do so must be avoided. drift into sew as, literate.	ARGE TIRE. Use water spray, fag or tres of sulfar oxides, and sodium oxide ing self-contained treathing apparatus coel unsperaed containers. streaming Award brasiling supports mad- trees of rignition. Howeauto personnel to the product personnel to the per			

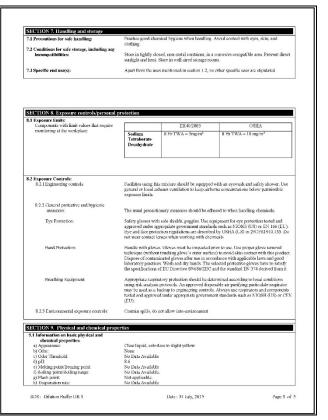
SECTION 7. Handling and Storage					
7.1 Precautions for safe handling:	Do not ingest. Do not insufficient ventilal	at. Keep oway from sources of ignition. Prevent electrostatic builds to breathe dust. West suitable protective clothing. In case of ion, wear suitable respiratory equipment. If ingested, sed, medical and show the container or the label. Avoid contact with skin and ey			
7.2 Conditions for safe storage, including any incompatibilities:	Keep away from incomposibles such as oxidizing agents. Keep container rightly closed. Keep container in a cool, well-ventilated area. Besides the uses described in Section 1.2 there are no other specific uses				
7.3 Specific end use(s):	Besides the uses described in Section 1.2 there are no other specific uses				
SECTION 8. Exposure Controls/ Personal F	rotection				
8.1 Exposure controls Additional information about design of technical systems: Exposure limits	None required				
Components with limit values that require	C1	To the state of th			
monitoring at the workplace:	Chemical Sedium Lauryl	Exposure Limits  OSHA Observe fimits for particulate not otherwise regulated:			
	Sulfate	15 mg/m3 total dast, 5 mg/m² respirable fraction (OSHA PEL) mg/m² inhalable particulate, 3 mg/m² respirable particulate. (ACGH/TLV)			
		RH 40/2005 Inhalable dust: 10mg/m²; Respinable dust: 4mg/m²			
Exposure controls - Engineering Controls:					
Dreathing equipment	Appropriate respira using risk analysis j may be used as a bi	al exhaust or general dilution ventilation.  kery protection should be determined according to local conditions  redoceds. An approved disposable air-partifying perfecultor respirator  despite originating centrols. Always use respirators and ocuponent  under appropriate government standards such as NIOSH (U.S) or Cl.			
Protection of hands	Dispose of contami laboratory practices The selected protect	Gloves must be inspected prior to use. Use proper glove removal outsiming gloves centar sustline) to sevoid since orthous this product stated gloves after use in accordance with applicable laws and good. Wash und dry hunds. "wash und dry hunds." "was proved to the stately the specifications of EU Directive estandard EN 374 derived from it.			
Eye protection.	approved under app Eye and face protec	side shields; goggles. Use equipment for eye protection tested and ropriate government standards such as NIOSH (US) or EN 166(EU) tion regulations are described by OSHA (US) in 29 CFR 1910.133. Henses when working with chemicals.			

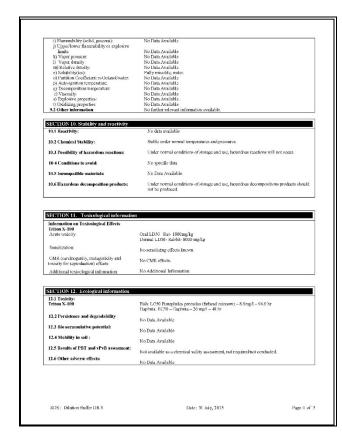
	Extraction Reagent Pow	oer (EB17)– no CA	S number				
properties							
Appearance:	Solid Powder, White						
Oder:	Odorless						
Oder threshold: pH:	not applicable 9.5 (1% sol/water)						
pH: Melting point/freezing point:	9.5 (1% sol/water)						
Initial boiling point and boiling range:	No data available						
Flash point:	No data available						
Evaporation rate:	No data available						
Flammability(solid, gas):	May be combustible at hig	ds formendure					
Upper/lower flammability or explosive limits:	No data available	or samp annual to					
Vapor pressure	No data available						
Vapor density:	Ne data available						
Relative density	No data available						
Solubility(ies):	Soluble in water						
Partition coefficient: n-octanol/water;	No data available						
Auto-Ignition Temperature:	No data available						
Decomposition temperature:	No data available						
Viscosity.	No data available						
Explosive properties: Oxidizing Properties	No data available not applicable						
2 Other information	not applicable						
Products of Combustion:	Carbon exides (CO, CO2)		602.3				
Fire Hazards in Presence of Various	Slightly flammable to flam						
Substances	Risks of explosion of the p			irmset: Not available			
	77 - 77	66					
ECTION 10. Stability and reactivity							
10.1 Reactivity	Not self-reactive						
	Not self-reactive. Stable under normal terms.	natures and pressur	26				
10.2 Chemical stability	Not self-reactive. Stable under normal temps Reaction with strong coid.						
10.2 Chemical stability 10.3 Possibility of hazardous reactions :	Stable under normal temps						
10.2 Chemical stability 10.3 Possibility of hazardous reactions : 10.4 Conditions to avoid : 10.5 Incompatible materials:	Stable under normal temp. Reaction with strong exid- Heat, flames, and sparks Oxidizing agents (eg bleac	zers may eause fire. sh).					
10.2 Chemical stability 10.3 Possibility of hazardous reactions : 10.4 Conditions to avoid : 10.5 Incompatible materials:	Stable under normal temp. Reaction with strong coid: Heat, flames, and sparks Oxidizing agents (eg. bleac Carbon menoxide, carbon	zers may eause fire. sh).		oxide, nitrogen oxides, silicone			
10.2 Chemical stability 10.3 Possibility of hazardous reactions : 10.4 Conditions to avoid : 10.5 Incompatible materials:	Stable under normal temp. Reaction with strong exid- Heat, flames, and sparks Oxidizing agents (eg bleac	zers may eause fire. sh).		oxide, nitrogen oxides, silicone			
10.2 Chemical stability 10.3 Possibility of hazardous reactions: 10.4 Conditions to avoid: 10.5 Incompatible materials 10.6 Hazardous decomposition products:	Stable under normal temp. Reaction with strong coid: Heat, flames, and sparks Oxidizing agents (eg. bleac Carbon menoxide, carbon	zers may eause fire. sh).		xide, nitrogen oxides, silicone			
10.2 Chemical stability 10.3 Possibility of hazardous reactions: 10.4 Conditions to avoid: 10.5 Incompatible materials: 10.6 Hazardous decomposition products: ECTION 11. Toxicological information	Stable under normal temp. Reaction with strong could. Hear, flames, and spariss Oxidizing agents (ag bleac Carbon monoxide, oarbon Oxides.	zers may eause fire. h). dioxide, sulfur oxid		xide, nitrogen oxides, silicone			
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misture is based on Sectium Lauryt Salfide,  12.2 Persistence and degradability:  12.3 Bio accumulative potential:  12.4 Mobility in soil:	Sadie ander normal nerger (Sanie Auguste normal nerger (Sanie normal nerger (Sanie normal nerger (Sanie normal nerger (Sanie ner	21-21-3 (dioxide, staffur oxide) (dioxide, staffur oxide) (dioxide, staffur oxide) (dioxide, staffur oxide) (1550-1200 m) (1550-1200 m) (1550-1200 m) (1550-1200 m) (dioxide) (d	e/sg mg/tg mg/tg grm3, theur 96 heurs 96 heurs 96 heurs 96 heurs	est rabbit rat.  Species  Species  Species  diplain ragan  Frendefirmboriels subsoptima  Hemodermu subspicions  Demodermu subspicions  Demodermu subspicions  BOO/ThBOU 95 9 %			
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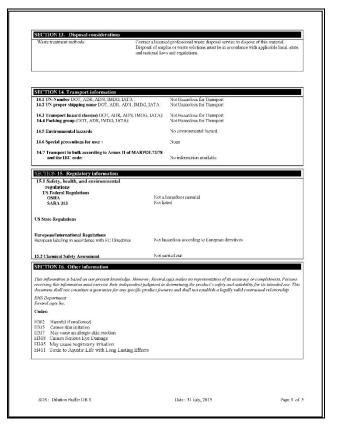




p-tertiary Octylphenoxy	9002-93-1	I	H302 Acute Tox. Oral 4	1%
polyethyl alcohol		l	H315 Skin Irrit. 2	
(Triten X-100)			H318 Eye Dam. 1 H411 Aquatic Chronic 2	
Surfynol	9014-85-1		H315 Skin irritation 2	2 %
10012101			H318 Eye damage I	
		*** *** *	H335 STOT SE 3	0.048 %
1,2 Benzisothiazelin-3- one (Proxel- GXL)	2634-33-5	220-120-9	H302 Acuse Tree. 4; H315 Skin Irrit. 2	0.048 %
Con (Cronn Cont)			H317 Skin Sens. 1 (C≥ 0.05%)	
			II318 Eye Dam. 1; I1400 Aquatic Acute 1	
SECTION 4. First aid meas				
4.1 Description of first aid mea	sures			
After inhalation:			n case of inhalation. Remove to fresh air. If not breathing a let medical attention immediately.	nve artificial respiratio
After skin contact:		II	n case of skin contact. Remove contaminated clothing and s	
		ia.	ffected area with mild seep or detergent for at least 10 minu	
			hemical remains. nease of eye contact, immediately flush eyes with plenty of	water for at least 15
After eye contact :			nimites. Lifting cyclids occasionally, until no evidence of of	
		n	sedical attention immediately.	
After swallowing :			rease of ingestion. DO NOT Induce vomiting unless direct ersonnel. Never give anything by mouth to an unconscious	
			mmediately.	s person: can a priyate
4.2 Most important symptoms	and effects has			
And delayed:	ino chicara po		ione .	
.,		N	one	
SECTION 5. Firefighting m	éasures	N	Cone	
SECTION 5. Firefighting m 5.1 Extinguishing media:	easures	CO2, c	extinguishing powder or water spray. Fight larger fires with	water spray or alcohol
		CO2, c		water spray or alcohol
5.1 Extinguishing media: 5.2 Special hazards arising from		CO2, e resistar e or None Wear	extinguishing powder or water spray. Fight larger fires with	
5.1 Extinguishing media: 5.2 Special hazards arising from mixture:		CO2, e resista e or None	exinguishing powder or water spray. Fight larger fires with nt from	
5.1 Extinguishing media: 5.2 Special hazards arising from mixture:		CO2, e resistar e or None Wear	exinguishing powder or water spray. Fight larger fires with nt from	
5.1 Extinguishing media: 5.2 Special hazards arising frot naxture: 5.3 Advice for fireflighters:	n the substanc	CO2, c resistar None Wearn gear.	exinguishing powder or water spray. Fight larger fires with nt from	
5.1 Extinguishing media: 5.2 Special hazards arising fror mixture: 5.3 Advice for firefighters: SECTION 6. Accidental rel	n the substance	CO2, c resistar None Weart gear.	exinguishing powder or water spray. Fight larger fires with nt from	
5.1 Extinguishing media: 5.2 Special hazards arising frot naxture: 5.3 Advice for fireflighters:	n the substance	CO2, coresistante or None Wear; gear.	exinguishing powder or water spray. Fight larger fires with nt from	viralery protective
Extinguishing media:     S. Special hazards arising free maximum:     Advice for firefighters:     SECTION 6. Accidental ret     Foregoal precautions, protections, protections, protections, protections, and accidental ret	n the substance	CO2, e resistar None Weary gear.  In the cr spill, ark	natinguashing poweder or water spray. Pigite larger free with its fears.  protective gean appropriate for fine conditions including req- tactive gean appropriate for fine conditions including req- tactive geans appropriate for fine conditions including re- tactive geans appropriate for fine conditions including re- tactive geans appropriate for fine conditions including re- tactive geans appropriate for fine conditions including re-	viralery protective
Estingulshing media:     Special hazards arising from mixture:     Advice for fireflighters:     SECTION 6. Accidental relationary procedures and emergency procedures.	n the substance	CO2, ce sesistate or None Wear pear.  Sent In the ce spill, and	ntinguabling powder or water spray. Fight larger free with to foun.  protective gean appropriate for fine conditions including and the conditions including and use of spilled mixture wave gloves to powerst skin contact. I discuss protection is recommended.	instery protective
Extinguishing usedia:     Special hazards arising from insture:     Advice for ficefighters:     Advice for ficefighters:     EXCITON 6. Accidental ret     for free for ficefighters procedures     and emergency procedures     Extra figure for first first first free for first f	n the substance	CO2, e resistar e e er None Wear gear.  The the e spill, and a Do not e d Absorb. Large sp	netinguishing prooder or water spray. Pigle larger fines with the form.  grovewhere gean appropriate for fine conditions including and the conditions of the conditions including and the of spilled mixture was gloves to prevent skin contact.	in the case of a large
5.1 Extinguishing media: 5.2 Special hazards arising froe maxture: 5.3 Advice for fireflighters: 5.3 Advice for fireflighters:  SECTION 6. Accidental rel 6.1 Personal precautions, protectures and emergency procedures 6.2 Eavironmental precautions 6.3 Methods and material for 6.	n the substance	CO2, ce or None Wear goar.  To the or spill, and Absorb: Large sp oxide. For saide	intinguishing powder or outer spray. Pight larger fires with it foam.  grole-thve gean appropriate for fine conditions including required through the properties of the fire conditions including required through the properties of spray of the properties of the content of the properties of th	in the case of a large
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**Table A: Summary Guide for Approved Matrices** 

Approved Matrix	Add to Sample Extraction Vessel (in this order)	Then shake immediately	Clarify	Run the Base Range Protocol First, followed by Dilution A and Dilution B Protocols, if necessary	Pre-mix as noted, then Transfer 200µL to Reaction Tube	Add Reaction Tube to Incubator Set at 22°C	Add Strip for	Read in QuickScan: Dilution Tab on the Result Page Should Display
	<ol> <li>25g sample</li> <li>1 EB17 pouch</li> <li>75 mL water*</li> <li>Immediately shake vigorously</li> </ol>			Base Range $0-30$ ppb	Pre-Mix 100 μL DB5 buffer + 100 μL extract in Reaction Tube	Acclimate tube for 2 min^	4 min.	1:1 (this is software default)
Corn (MG1)	for 10 seconds by handOR  1. 50g sample	1 min highest speed on shaker table or	Filter or Centrifuge	Dilution A 30 – 100 ppb	Pre-Mix 400 μL Dil'n Sol'n + 100 μL extract Transfer 200 μL	Acclimate tube for 2 min^	4 min.	1:A (this must be selected)
	<ol> <li>2 EB17 pouches</li> <li>150 mL water*</li> <li>Immediately shake vigorously for 10 seconds by hand</li> </ol>	2 min by hand		Dilution B 100 – 300 ppb	Pre-Mix 200 μL Dil'n Sol'n + 100 μL pre-mix extract from Dil A Transfer 200 μL	Acclimate tube for 2 min^	4 min.	1:B (this must be selected)

### Notes:

<sup>\*</sup>Use distilled, deionized, or flat (non-carbonated) bottled water

<sup>^</sup>The tube acclimation step is only required if the temperature of the testing environment is unknown or outside of 20 - 24°C (68 - 75°F) Dilution Solution = Mix 1 x EB17 pouch with 150 mL water