## ENVIROLOGIX

# QuickStix<sup>™</sup> Kit for Enogen<sup>™</sup> Corn

**AP Test Procedure for Bulk Grain Samples** 

#### Highlights:

- Results in 10 minutes or less
- Available as 50-strip kit or in bulk packaging.

#### Contents of Kit:

- 50 QuickStix Strips packed in a moisture-resistant canister
- 50 transfer pipettes
- 50 reaction vials
- EB15 Extraction Buffer (see Sample Preparation Step 3 for instructions)
- 1N HCl Solution

#### Items Not Provided:

- Waring blender, model 31BL91 or equivalent method, such as a Bunn Grinder
- Glass jar adapter (Eberbach # E8495)
- Glass Mason jars
- Protective cover for blender jar while grinding
- Graduated cylinder\*
- 1L Bottle to mix up EB15 Extraction Buffer

\*Available as Accessories – see list on Page 3 Catalog Number AS 070 BG

### **Intended Use**

The EnviroLogix QuickStix Kit for Enogen<sup>TM</sup> Corn is designed for qualitative detection of the amylase protein in Enogen<sup>TM</sup> corn in bulk grain samples. Enogen<sup>TM</sup> corn derived from transformation Event 3272 contains the transgene *amy797E*, which encodes a synthetic thermostable alpha-amylase protein. The assay will detect the amylase protein found in a sample containing 0.25% Enogen<sup>TM</sup> corn (1 positive grain in a 400 negative grain sample) and requires 10 minutes to run.

### How the Test Works

The QuickStix Kit is a "sandwich" type lateral flow strip test. In the test, bulk grain corn and single seed corn extracts are prepared and tested using a strip coated with antibodies raised against amylase protein. Amylase present in the sample extract binds to the antibodies bound on the strip and is then detected by a second anti-amylase antibody that is gold labeled. A positive sample results in a visual pink line forming about half way up the strip along with a second control line.

Each QuickStix Strip has an absorbent pad at each end. The protective tape with the arrow indicates the end of the strip to insert into the reaction vial. The sample will travel up the membrane strip and be absorbed into the larger pad at the top of the strip. The portion of the strip between the protective tape and the absorbent pad at the top of the strip is used to view the reactions as described under "Interpreting the Results".

### **Sample Preparation**

#### Step 1: Determine Number of Sub-samples

- 1. Collect a composite sample according to USDA/GIPSA instructions found in the following reference documents:
  - http://www.gipsa.usda.gov/fgis/handbook/gihbk1\_inspec.aspx USDA Grain Inspection Handbook, Book 1, Grain Sampling.
  - http://www.gipsa.usda.gov/fgis/biotech/sample2.htm Guidance document entitled Sampling for the Detection of Biotech Grains.
  - http://www.gipsa.usda.gov/fgis/biotech/sample1.htm Practical Application of Sampling for the Detection of Biotech Grains.
  - www.gipsa.usda.gov/fgis/biotech/samplingplan1.xls This website provides a simple to use Sample Planner (29K Excel Spreadsheet). The planner allows you to enter different assumptions in terms of sample size, number of samples, acceptable quality level and to determine the probability of accepting lots with given concentration levels. It also plots the probabilities in graph form for easy interpretation. Specific data can be saved for documentation and future analyses.
- The following is a helpful reference for use in designing a sampling plan: Remund, K.M., Dixon, D.A., Wright D.L., Holden, L.R. "Statistical considerations in seed purity testing for transgenic traits", Seed Science Research, June 2001, Vol. 11 No.2, pp. 101-119.
- 3. To select the appropriate sample size, determine the purity standard and the degree of confidence required. Confidence level means the statistical probability that the true Enogen<sup>™</sup> level in the seed lot is below the selected purity standard. Table 1 (next page) provides a guideline for determining the number of 400 seed sub-



<u>Corn</u> Grams of Corn x 1.5 = mL of Extraction Buffer



Avoid pulling up particles when drawing sample



Add 1N HCl, then extract to vial; wait one minute



Then add strip

samples necessary to provide effective screening at different GM concentrations at the 90, 95 and 99% confidence levels.

Table 1-Amylase Corn Screening Levels		of 400 kernel s t specific perce		
Confidence Level	1.0%	0.5%	0.1%	0.05%
90%	1	2	6	11
95%	1	2	8	14
99%	2	3	11	21

For other sampling scenarios or different screening or confidence levels, refer to the USDA/GIPSA Excel spreadsheet described under Step 1 above, or call EnviroLogix Technical Support for assistance.

#### Step 2: Determine Average Seed Weight

4. Determine average weight of individual grain to be tested (weigh 100 seeds, divide by 100). Calculate the weight of the number of grains to be tested (Number of grains [100] X Average Weight/Grain). Use this weight for easy measuring of multiple subsamples into respective jars in preparation for grinding.

#### **Step 3: Prepare the Sample**

**Prepare EB15 Extraction Buffer** –Pour the entire contents of the supplied buffer packet into 1 liter of tap water. Thoroughly mix to dissolve the buffer. Store at room temperature when not in use. (See Precautions and Notes; SDS is attached, pages 5-6).

- 5. Weigh seed sample into a 16-ounce glass Mason jar for grinding. (If subsampling from a larger ground sample, weigh sample into a cup with a cap\*.)
- 6. Put protective cover over the jar attached to the blender.
- 7. Grind sample with a Waring blender (or equivalent method) and jar adapter on high speed for a grinding time of 20-30 seconds or until all whole grains are broken.
- 8. Add the volume of Extraction Buffer calculated by the formula at left. For example: If testing 400 kernels with an average weight of 0.25g: (400 x 0.25) = 100g x 1.5 = 150 mL Extraction Buffer.
- 9. Cap the jar and shake vigorously for at least 30 seconds, or longer if needed, to thoroughly wet all of the corn in the sample. Sample will begin to settle immediately and liquid can be drawn off at that time.
- 10. While sample settles, add one drop of 1N HCl to the reaction vial.
- 11. Draw up enough liquid extract from above the settled sample to fill the long narrow tip of the transfer pipette up to the line at the top of the flared portion of the pipette bulb (see illustration on left sidebar). Avoid pulling up particles. Dispense extract (0.5 mL) into reaction vial. Allow to react for 1 minute before adding QuickStix to the vial.
- 12. To prevent cross-contamination, thoroughly clean blender parts and jars to remove dust and residue prior to preparation of a second sample. Use a new transfer pipette and reaction vial for each sample.

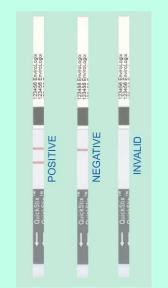
### How to Run the QuickStix Strip Test

- 1. Allow refrigerated canisters to come to room temperature before opening. Remove the QuickStix Strips to be used. Avoid bending the strips. Reseal the canister immediately.
- 2. Place the strip into the reaction vial. The sample will travel up the strip. Reaction vials will stand on their own or may be inserted into the cardboard racks provided.
- 3. Allow the strip to develop for 10 minutes before making final assay interpretations. Positive sample results may become obvious much more quickly.
- 4. To retain the strip, cut off and discard the bottom section of the strip covered by the arrow tape.

NOTE: Use extreme caution to prevent sample-to-sample cross-contamination with grain, fluids, or disposables.



Wait 10 minutes; read results



Any clearly discernable pink Test Line is considered positive



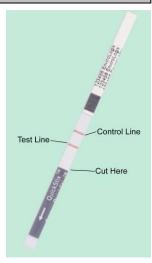


### **Interpreting the Results**

Development of the Control Line within 10 minutes indicates that the strip has functioned properly. Any strip that does not develop a Control Line should be discarded, and the sample re-tested using another strip.

If the extract is from a bulk grain sample containing at least 0.25% Enogen<sup>TM</sup> corn (Event 3272), a second line (Test Line) will develop on the membrane strip between the Control Line and the protective tape. *The results should be interpreted as positive for amylase expression.* 

If the extract is from a negative sample, the strip will only show the Control Line.



### **Kit Storage**

QuickStix can be stored at room temperature, or refrigerated for a longer shelf life. Note the shelf life on the kit box for each storage temperature. The kit may be used in field applications; however, prolonged exposure to high temperatures may adversely affect the test results. Do not open the desiccated canister until ready to use the test strips.

### **Precautions and Notes**

- This kit is designed to screen for presence or absence only, and is not meant to be quantitative.
- This product is currently not applicable for use in any other crop or in leaf tissue testing.
- As with all tests, it is recommended that results be confirmed by an alternate method if necessary.
- The extraction buffer used in the sample preparation procedure is a high pH (>11) and should be handled using eye and skin protection (safely glasses/goggles and gloves). SDS is attached, pages 5-6. Resulting corn extract is ~pH 9; check your local regulations concerning disposal.
- 1N HCl should be handled using eye and skin protection (safety glasses/goggles and impervious gloves). SDS is attached, pages 7-9.
- The assay has been optimized to be used with the protocol provided in the kit. Deviation from this protocol may invalidate the results of the test.
- 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 seed lot 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 or protein in question.
- Warning: a strong positive result may safely be interpreted in as little as 2 minutes after sample addition. It is not safe to interpret weak positive or negative results prior to 10 minutes.
- DO NOT leave in direct sunlight or in vehicle. Protect all components from hot or cold extremes of temperature when not in use.

### **Optional Items Available:**

Graduated cylinder (100 mL) ACC 068
Set of 50 sample cups with caps ACC 012

Rev. 10-01-15



#### For Technical Support Contact Us At:

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#### LIMITED WARRANTY

EnviroLogix Inc. ("EnviroLogix") warrants the products sold hereunder ("the Products") against defects in materials and workmanship when used in accordance with the applicable instructions for a period not to extend beyond a product's printed expiration date. If the Products do not conform to this Limited Warranty and the customer notifies EnviroLogix in writing of such defects during the warranty period, including an offer by the customer to return the Products to EnviroLogix for evaluation, EnviroLogix will repair or replace, at its option, any product or part thereof that proves defective in materials or workmanship within the warranty period.

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EnviroLogix does not warrant against damages or defects arising in shipping or handling, or out of accident or improper or abnormal use of the Products; against defects in products or components not manufactured by EnviroLogix, or against damages resulting from such non-EnviroLogix made products or components. EnviroLogix passes on to customer the warranty it received (if any) from the maker thereof of such non-EnviroLogix made products or components. This warranty also does not apply to Products to which changes or modifications have been made or attempted by persons other than pursuant to written authorization by EnviroLogix.

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.

This test kit has been approved by Syngenta for detection of the amylase protein in  $Enogen^{TM}$  corn.

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	bstance/mixture and of the company/undertaking	5.1 Extinguishing media 5.2 Special hazards arising fro	CO2, extinguishing powder or water spray. Use extinguishing media appropriate to surroundings and circumstances on the
1.1 Product identifier Trade name: Part namber	Extraction Buffer	substance or mixture : 5.2 Advice for firefighters	Oxides of Phosphorous and Sodium Do not enter fire area without proper protective equipment, including respiratory proto
<ol> <li>Relevant identified uses of the substance and uses advised against application of the</li> </ol>		ST Autor of Integration	too not unce my area winnon proper processive equipment, menuting respiratory proce
/ the preparation : 1.3 Details of the supplier of the safety data	Laboratory chemicals	SECTION 6. Accidental r 6.1 Personal precautions, pro	
Manufacturer/Supplier:	Envirol.ogix Inc., 500 Riverside Industrial Pkwy. Portland ME 04103, USA (207) 797-0300	equipment and emergency procedures:	spill, addition inhalation protection is recommended.
1.4 Emergency telephone number:	(207) 797-0300 207-797-0300 (Technical Service)	6.2 Environmental precaution	a: Do not discharge mixture to sewer system or waterways.
SECTION 2. Hazards identification		6.3 Methods and material for containment and clean up	Small spills wipe or scrape up and discard in appropriate waste. Clean with water afterwar
2.1 Classification of the substance or mixtu Classification according to 29CFR 1910.1			spills wipe or scrape up material, wash area thoroughly with water. Dispose according to s 13.
2.2 Label elements	Serious eye irritation Cat 2	6.4 Reference to Other Section	as: For safe handling, refer to Section 7; for information on PPE refer to Section 8; for dispose information, refer to Section 13.
Labeling according to 29CFR 1910.1200 Hazard pictograms :	^	SECTION 7. Handling and	
6		7.1 Precautions for safe hand 7.2 Conditions for safe storag	
Signal word : Hazard statements:	Danger H302 Harmful if swallowed	including any incompatib	littles Keep container tightly closed in a dry and well-ventilated space.
	H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H319 Causes serious eye irritation	7.3 Specific end use(s)	Apart from those mentioned in Section 1.2, no other specific end uses are stipulated.
Precautionary statements:	P301+P330+P331 If swallowed: rinse mouth do not induce vomiting P305+P351+P338 IF IN EYES: Rinse cautiously with water for several	SECTION 8. Exposure con	trols/personal protection
	Minutes. Remove contact lenses if present and easy t Continue rinsing.	do. 8.1 Control Parameters Components with limit value that require monitoring of the	a
2.3 Other Statements	None	workplace:	None
SECTION 3. Composition/information 3.2 Mixture		8.2 Exposure Controls Engineering Controls	Utilize general industrial hygiene practice
Triso	nical name         CAS No         EC No         Amount (%)           dium Phosphate,         10101-89-0         231-509-8         75.0% - 80.0           calaydrate         231-509-8         75.0% - 80.0         75.0% - 80.0	Engineering Controls Personal protective equip	
Sodia	am Sesquicarbonate 533-96-0 208-580-9 20.0% - 25.0		satery gasses with side stretch, goggles. Use equipment for eye protection resets and approve under appropriate government standards such as NIOSH (US) or EN 166 (EU). Eve and face protection regulations are described by OSHA (US) in 29CFR1910.133.
SECTION 4. First aid measures			Do not wear contact lenses when working with chemicals
4.1 Description of first aid measures	In case of inhalation. Remove to fresh air. If not breathing give artificial respirat In case of skin contact. Remove contaminated clothing and shoes immediately. V		Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniqu (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice.
	affected area with mild soap or detergent for at least 10 minutes or until no evider chemical remains.	e of	contaminated gloves after use in accordance with applicable laws and good laboratory practice Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Lifting cyclids occasionally, until no evidence of chemical remains. Ca physician.	10	Appropriate respiratory protection should be determined according to local conditions using ri analysis protocols. An approved disposable air purifying particulate respirator may be used as
	In case of ingestion, Rinse mouth, DO NOT induce vomiting unless directed to d medical personnel. Call a physician immediately.	so by	backup to engineering controls. Always use respirators and components tested and approved appropriate government standards such as NIOSH (US) or CEN (EU).
4.2 Information for doctor	May cause skin damage/irritation and eye damage/irritation. Treat symptomatical	Environmental Controls	Contain spills, do not release to the environment.
4.3 Indication of any immediate medical attention and Special treatment needed	l: None		
SECTION 0 Physical and chemical a	reporties		n Mestha
b) Oder Nor	stalline powder ne	SECTION 13. Disposal of 13.1 Waste treatment methods	Insiderations Hand over to hazardous waste disposers. Fellow foderal, state and local regulations for discharge for waste control regulati EFA guidelines for waste classification determination is lated in 40 CFR part 261 Fellow Europen Discrive on waste, 2008/8/EC.
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### QuickStix Kit for Enogen<sup>™</sup> Corn Page 6 of 7

SECTION 1. Identification of the substan	nce/mixture and of	the company/undertaking				ion/inform:	tion on ing	redients		
1.1 Product identifier Trade name:		ution (1.0 N HCl)		3.2	Mixture Aqueous solution 1	IN Hydrochle	ric Acid (1N	(HCl, 3%HCl)		
Part number 1.2 Relevant identified uses of the substance or	11776 (X)	GD007)			Chemical name	Amount (%)	CAS No	Classification According to O	OSHA 29CFR 1910.1200	
mixture and uses advised against applicati of the substance / the preparation : 1.3 Details of the supplier of the safety data she	Laboratory	y chemicals			Hydrochloric acid	1-4%	EC No	Hazard Classification	Hazard Code	
Manufacturer/Supplier:	EnviroLog Portland N	gix Inc. 500 Riverside Industrial IE 04103, USA	d Pkwy,				7647-01-0 231-595-7	May be Corrosive to Metals	H290	
		07) 797-0300					231-393-7	Causes Skin Initation	H315	
1.4 Emergency telephone number:	(207) 797-	0300 Technical Service						Causes Serious Eye Damage	H318	
SECTION 2. Hazards identification 2.1 Classification of the substance or mixture	Hazard	Classer								
Classification according to OSHA 29 CFR 15	910.1200 Metal Co Skin Irrit	ation (Cat. 1) H290 ation (Cat. 2) H315 Eye damage (Cat. 1) H318						3		
2.2 Label elements Labeling according to OSHA 29CFR 1910.12	200			4.1 D	TION 4. First aid n escription of first aid fter inhalation :					
Hazard pictograms :					fter innalation : fter skin contact :			In case of inhalation. Remove to fresh air respiration. Get medical attention immedi. In case of skin contact. Remove contamina	iately.	
The second precisions 1	4	>						Wash affected area with mild soap or deter evidence of chemical remains.	rgent for at least 10 minutes or	r until no
Signal word :	Warning			A	fter eye contact :			In case of eve contact, immediately flush e minutes. Lifting eyelids occasionally, unti	eyes with plenty of water for a il no evidence of chemical ren	t least 15 tains. G
Hazard statements:	H290 M	ay be corrosive to metals		A	fter swallowing :			medical attention immediately. In case of ingestion, DO NOT Induce von medical personnel. Never give anything b	niting unless directed to do so	by
	H315 Ca	auses skin irritation uses serious eye damage			2			a physician immediately.	og aroun to an inconscious pe	aout Ci
Precautionary statements:	P281 P302 + P	352 IF ON SKIN Wash	ctive equipment as required h with plenty of soap and water.	4.2 M	ost important sympto nd delayed:	oms and effe	crs, both acu	te May cause skin irritation and eye damage		
	P305+P2	351+P338 IF IN EYES: Rinso minutes. Remove c	e cautiously with water for several contact lenses if present and easy to do.	4.3 In	dication of any imme recial treatment need	ediate medic led:	al attention a	nd DO NOT use sodium bicarbonate in an att	termst to neutralize the acid	
		Continue rinsing.						20 10 1 and contain system of the H dil dil	, to introduce the well.	
2.3 Other Statements	None				TION 5. Firefightin	ng measure	8	004		
				20000	stinguishing media:	a from the	theta mer er	CO2, extinguishing powder or water spray. Figh resistant foam.	nt targer fires with water spray	or alcol
				5.2 Sj m	pecial hazards arising dxture:	g rrom the su	instance or	Hydrogen Chloride gas		
				5.3 A	dvice for firefighters:	61		Wear protective gear appropriate for fire condit gear.	tions including respiratory pro	tective
				24						
				SEC	TION 6. Accidenta	al release m	easures			
				6.1 P	ersonal precautions, j nd emergency proced	protective ec	uipment	In the case of willed minimum many elements to men	and this contact. In the same	C
					nu emergency procee	oures.		In the case of spilled mixture wear gloves to prev spill, additional protection is recommended.	veni skin conaci. In the case c	A a mige
				- 6.2 E	nvironmental precau	tions:		Do not discharge mixture to sewer system or wate	terways.	
SDS: Stop Solution (XGD007)		Revision: 13 April, 2015	Page 1 of 0	6 SD:	S: Stop Solution (X	(GD007)		Revision: 13 April, 2015		Page 2
	4				TION 9. Physical :			**		
6.3 Methods and material for containment and cleamp:	Absorb in paper t Large spills may oxide.	be neutralized with dilute solut	e waste. Clean with water afterwards. Tores of soldium carbonate or calcium along on PPF treffor Societto R. For	9.1 1 a) b)	nformation on basic chemical properties Appearance: Odor:	physical and	C F	Clear liquid, colorless to slight yellow. /ungent (slight)		
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#### QuickStix Kit for Enogen<sup>™</sup> Corn Page 7 of 7

12.2 Persistence and degradability :	No Data Available	SECTION 16. Other information	
12.3 Bio accumulative potential:	No Data Available	This information is true based on our present knowledge. However, EnviroLogix makes no represent	ation of its accuracy or completene
12.4 Mobility in soil :	No Data Available	Persons receiving this information must exercise their independent judgment in determining the pro- use. This document shall not constitute a guarantee for any specific product features and shall not ex- relationshap	
12.5 Results of PBT and vPvB assessment:	Not available as a chemical safety assessment, not required/not cor	EHS Department	
12.6 Other adverse effects:	No Data Available	EnviroLogis, Inc.	
			otective equipment as Required
SECTION 13. Disposal considerations		H318 Causes Serious Eye Damage P305+ P351+P338 IF IN EYES: Rin	
Waste treatment methods:	Contact a licensed professional waste disposal service to dispose or Disposal of surplus or waste solutions must be in accordance with and national laws and regulations.	lis material.	contact lenses if present and easy to
SECTION 14. Transport information 14.1 UN-Number DOT, ADR, ADN, IMDG, IA'	FA : UNI789		
14.2 UN proper shipping name DOT, ADR, ADR, ADR, ADR, ADR, ADR, ADR, ADR	N, IMDG, IATA : HYDROCHLORIC ACID SOLUTION		
14.3 Transport hazard class(es) DOT, ADR, Al 14.4 Packing group (DOT, ADR, IMDG, IATA			
14.5 Environmental hazards	Not hazardous to the environment.		
14.6 Special precautions for user : 14.7 Transport in bulk according to Annex II and the IBC code:	None		
14.7 Transport in bulk according to Annex II	None      ALSE 7647-01-0 is not listed on the TSCA investory.     Non-internation available.      CASE 7647-01-0 is not listed on the TSCA investory.     None listed     None under a Chemical T-of Rule.     CASE 7647-01-0 is listed as a hazardoos hybrid hazardoos 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as a hazardoos hybrid hazardoo 10 CASE 7647-01-0 is listed as hazardoos hybrid haza	the CWA. A.	
14.7 Iransport in bulk according to Ames II and the IIIC code: SECTION 15. Regulatory Information 15.1 Safety, health and environmental regulations/registation specific for the substance or mixture US Poteral Regulations The American Control (Control (Control (Control)) Control (Control)) Calence of the Control (Control) Calence of Control (Control) Control (Control) C	None MARPOLINE CASH 7647-01-0 is not listed on the TSCA inventory. None listed CASH 7647-01-0 is not listed on the TSCA inventory. None listed CASH 7647-01-0 is instellated as heardows air pediutate (I CASH 7647-01-0 is is listed as a heardows listed such as the CASH 7647-01-0.	the CWA. A. A	
14.7 Iransport in bulk according to Ames II and the IIIC code: SECTION 15. Regulatory information SECTION 15. Regulatory information regulations/regulation specific for the understore or anistrory 18 SECA: guarantees Testical and strength spectra guarantees Health and strengt spectra guarantees SabAs Section 20 (Estimoly Hazandous SabAstances) Class Art Act Class Water Act OstiA	None #MARPOL727 No information available. CAS# 7647-01-0 is not listed on the TSCA inventory. None listed CAS# 7647-01-0 is not listed on the TSCA inventory. None listed CAS# 7647-01-0 is 100 informal RQ2 2720 Kg final RQ2 CAS# 7647-01-0 is 100 informal RQ2 2720 Kg final RQ2 CAS# 7647-01-0 is 100 informal RQ2 2720 Kg final RQ2 CAS# 7647-01-0 is 100 informal RQ2 2720 Kg final RQ2 CAS# 7647-01-0 is 100 informal RQ2 2720 Kg final RQ2 CAS# 7647-01-0 is 100 informal informal RQ2 information CAS# 7647-01-0 is informal on home for following state in CAS# 7647-01-0 is informal on the final model on the following state in CAS# 7647-01-0 is information in the following state in the following state in CAS# 7647-01-0 is information in the following state in the following state in CAS# 7647-01-0 in the following state in the following state in CAS# 7647-01-0 in the following state in the followi	the CWA.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.	
14.7 Transport in bulk according to Ames II and the IIIC code: SECTION IS: Regulatory information     SECTION IS: Regulatory information     TestA, mainteemark     TestA, mainteemark     TestA, mainteemark     TestA, mainteemark     TestA, mainteemark     Section 20: (Estimate)     Hardin and safety Reporting Late Chemical Test Fade Chemical Test Fade Chemic	None MARPOLIZE A to information available. CAS# 7647-01-0 is not listed on the TSCA inventory. None listed CAS# 7647-01-0 is not listed on the TSCA inventory. None listed CAS# 7647-01-0 is listed as heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos air pollutate ( CAS# 7647-01-0 is listed as a heardoos are pollutate ( CAS# 76	the CWA. A. A	