

QuantiPlate[™] Kit for Microcystins High Sensitivity

Highlights:

- Quantitative laboratory detection of Microcystin toxin in surface water
- Detects from 0.1 to 1.2 ppb

Contents of Kit:

- 12 strips of 8 antibody-coated wells each, in plate frame
- 1 vial of Negative Control
- 1 vial of 0.1 ppb Microcystin LR Calibrator
- 1 vial of 0.3 ppb Microcystin LR Calibrator
- 1 vial of 0.6 ppb Microcystin LR Calibrator
- 1 vial of 1.2 ppb Microcystin LR Calibrator
- 1 bottle of Assay Diluent
- 1 bottle of Microcystin-enzyme Conjugate
- 1 packet of Wash Solution salts
- 1 bottle of Substrate
- 1 bottle of Stop Solution

Precision

	Recovery	OD
	(%CV)	(%CV)
	Intra-Assay	n=11
0.2 ppb	4.6%	2.3%
0.6 ppb	3.0%	3.7%
	Inter-Assay	n=11
0.2 ppb	6.4%	4.3%
0.6 ppb	1.9%	8.9%

Cross-Reactivity

Compound	50% B ₀	80% B ₀
Microcystin LR	0.28	0.11
Microcystin LA	1.4	0.36
Microcystin RR	0.30	0.10
Microcystin YR	0.43	0.17
Nodularin	0.19	0.07

Catalog Number EP 022 HS

Intended Use

The EnviroLogix QuantiPlate Kit for Microcystins High Sensitivity is designed for the quantitative laboratory detection of Microcystin toxin in surface water samples, with an assay quantitation range from 0.1 to 1.2 parts per billion (ppb)

How the Test Works

This QuantiPlate Kit for Microcystins is a competitive Enzyme-Linked ImmunoSorbent Assay (ELISA).

In the test, Microcystin toxin in the sample competes with enzyme (horseradish peroxidase)-labeled Microcystin for a limited number of antibody binding sites on the inside surface of the test wells.

After a simple wash step, the outcome of the competition is visualized with a color development step. As with all competitive immunoassays, sample concentration is inversely proportional to color development.

Darker color = Lower concentration Lighter color = Higher concentration

Limit of Detection

The Limit of Detection (LOD) of this Kit is 0.071 ppb. The LOD was determined by interpolation at 87.8% B_0^* from a standard curve. 87.8% B_0 was determined to be 3 standard deviations from the mean of a population of negative surface water samples.

*100% B₀ equals the maximum amount of Microcystin-enzyme conjugate that is bound by the antibody in the absence of any Microcystin in the sample (i.e. negative control). $B_0 = (OD \text{ of Sample or Calibrator/OD of Negative Control}) x 100.$

Limit of Quantification

The Limit of Quantification (LOQ) of this Kit was validated at 0.15 ppb. The LOQ was determined by fortifying a population of negative surface water samples at 0.15 ppb. The mean recovery was 98.0% with a coefficient of variation (CV) [(standard deviation/mean) x 100] of 8.5%.

Precision

Microcystin-fortified control solutions were repetitively analyzed both within a single assay, and in different assays on different days. The data is expressed as %CV for both the recovered concentration and for absorbance (OD).

Cross-Reactivity

This Kit does not distinguish between the Microcystin toxin variants, but detects their presence to differing degrees. The accompanying table shows the value for 50% B_0 and the value for the 80% B_0 for four Microcystin toxin variants and nodularin toxin. Concentration is in ppb. Humic acid did not interfere in the assay up to a concentration of 100 ppm.



Remove unneeded strips



Select Calibrators and Control



Add controls/calibrators/sample



Mix plate



Incubate



Bottle Wash method

Materials Needed

- disposable tip adjustable air-displacement pipette which will measure 50 μL and 100 μL
- marking pen (indelible)
- tape or Parafilm®
- timer (30 minutes)
- distilled water for preparing Wash Solution
- glassware for storing Wash Solution
- wash bottle for washing strips with Wash Solution
- microtiter plate reader or strip reader
- microtiter plate washer (optional)
- twelve or 8-channel pipette that will measure 50 μ L and 100 μ L (optional)
- racked (glass) dilution tubes for loading samples into the plate with a 12channel pipette (optional)
- orbital plate shaker (optional)

Preparation of Solutions

Wash Buffer:

To make 1 L, add the contents of one packet of phosphate-buffered saline - Tween 20, pH 7.4 (**Wash Solution salts**) to 1 L of distilled water. Mix thoroughly to dissolve the salts. This can be stored at room temperature.

How to Run the Assay

- Read all of these instructions before running the kit.
- Allow all reagents to reach room temperature before beginning (at least 30 minutes with un-boxed strips and reagents at room temperature do not remove strips from bag with desiccant until they have warmed up).
- Organize all samples, reagents and pipettes so that steps 1 and 2 can be performed in 10 minutes or less.
- If more than three strips are to be run at one time, the 10 minutes is likely to be exceeded, and the use of a multi-channel pipette is recommended (see "Note" below).
- If three or fewer strips are to be run, use a disposable-tip air-displacement pipette and a clean pipette tip to add each Calibrator and sample to the wells. Assay Diluent, Conjugate, Substrate, and Stop Solution may be added in the same manner; alternatively, use a repeating pipette with a disposable tip on the end of the Combitip for these three reagents.
- If fewer than all twelve strips are used, reseal the unneeded strips and the desiccant in the plastic bag provided.
- Use the well identification markings on the plate frame to guide you when adding the samples and reagents. Two strips may be used to run the Negative Control (NC), four Calibrators (C1-C4) and three samples, in duplicate. More samples require more strips. For an example plate layout see Figure 1.
- 1. Rapidly add 50 μ L of Microcystin Assay Diluent to each well that will be used, preferably with a repeating or multi-channel pipetter.
- Immediately add 50 μL of Negative Control (NC), 50 μL of each Calibrator (C1-C4) and 50 μL of each sample (S1-S3 or more) to their respective wells, as shown in Figure 1. (Follow this same order of addition for all reagents.) Do not add Microcystin-enzyme Conjugate in this step.

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Strip Plate Wash option



Complete protocol and add Stop Solution



Read plates in a Plate Reader within 30 minutes of the addition of Stop Solution



Illustrative standard curve

3. Thoroughly mix the contents of the wells by moving the strip holder in a rapid circular motion on the benchtop for a full 20-30 seconds. Be careful not to spill the contents!

NOTE: In order to minimize setup time it is recommended that a multi-channel pipette be used in steps 1, 2, 5, 8 and 10 when more than 3 strips are used.

- 4. Cover the wells with tape or Parafilm to prevent evaporation and incubate at ambient temperature for 30 minutes. If an orbital shaker is available shake at 200 rpm.
- 5. Add **50** µL of **Microcystin-enzyme Conjugate** to each well. Do not empty the well contents or wash the strips at this time.
- 6. Thoroughly mix the contents of the wells as in step 3. Cover the wells with tape or Parafilm and incubate at ambient temperature for 30 minutes. Use orbital shaker if available.
- 7. After incubation, carefully remove the covering and vigorously shake the contents of the wells into a sink or other suitable container. Flood the wells completely with **Wash Solution**, then shake to empty. Repeat this wash step four times. Slap the plate on a paper towel to remove as much Wash Solution as possible. Alternatively, use a microtiter plate washer with **Wash Solution** for the wash step.
- 8. Add 100 µL of Substrate to each well.
- 9. Thoroughly mix the contents of the wells, as in step 3. Cover the wells with <u>new</u> tape or Parafilm and incubate for 30 minutes at ambient temperature. Use orbital shaker if available.

Caution: Stop Solution is 1.0 N Hydrochloric acid. Handle carefully.

10. Add **100** μ L of **Stop Solution** to each well and mix thoroughly. This will turn the well contents yellow.

NOTE: Read the plate within 30 minutes of the addition of Stop Solution.

How to Interpret the Results

Spectrophotometric Measurement

- 1. Set the wavelength of your microtiter plate reader to 450 nanometers (nm). (If it has dual wavelength capability, use 600, 630 or 650 nm as the reference wavelength.)
- 2. If the plate reader does not auto-zero on air, zero the instrument against $200 \,\mu\text{L}$ water in a blank well. Measure and record the optical density (OD) of each well's contents. Alternatively, measure and record the OD in every well, then subtract the OD of the water blank from each of the readings.
- 3. A 4 parameter curve fit should be used to create the standard curve, use the software provided with your plate reader to interpolate sample concentrations off this 4 parameter curve. A semi-Log curve fit is not recommended.

If the OD of a sample is <u>lower</u> than that of the <u>highest</u> Calibrator, the sample must be reported as greater than 1.2ppb. If a concentration must be determined for these high level samples, dilute the sample 1:8 in distilled water. Run this dilution in a repeat of the immunoassay. If the result now falls within the range of the ODs of the Calibrators, you must then multiply the concentration measured in the diluted sample by a factor of 8.

Precautions and Notes

- Store all components at 4°-8°C (39°-46°F) when not in use.
- Do not expose components to temperatures greater than 37°C (99°F) or less than 2°C (36°F).
- Allow all reagents to reach ambient temperature (18°C to 27°C or 64°F to 81°F) before use.
- Do not use kit components after the expiration date.
- Do not use reagents or test well strips from one QuantiPlate Kit with reagents or test well strips from a different QuantiPlate Kit.
- Do not expose Substrate to sunlight during pipetting or while incubating in the test wells.
- Do not dilute or adulterate test reagents or use samples not called for in the test procedure.
- As with all tests, it is recommended that results be confirmed by an alternate method when necessary.
- Observe any applicable regulations when disposing of samples and kit reagents.
- Microcystin LR in aqueous solution will stick to plastics such as polypropylene. Collect and process samples in glass containers. Clear samples free of organic material can be stored refrigerated for up to two weeks before analysis.

Figure 1. Example of a typical plate setup. (1 x 8 strips)

	1	2	3	4	5	6	7	8	9	10	11	12
Α	NC	NC										
В	C1	C1										
С	C2	C2										
D	C3	C3										
Е	C4	C4										
F	S 1	S 1										
G	S2	S2										
Η	S 3	S 3										

Figure 2. Illustrative quantitative calculations

Well		Average			Microcystin Concentration
contents	OD	OD	%CV	%B0	(ppb)
Negative	1.358				
Control	1.359	1.358	0	100	NA
0.1ppb	1.115				
Calibrator	1.106	1.11	0.60	81.7	NA
0.3ppb	0.672				
Calibrator	0.696	0.684	2.5	50.4	NA
0.6 ppb	0.327				
Calibrator	0.324	0.325	0.7	23.9	NA
1.2 ppb	0.151				
Calibrator	0.159	0.155	3.6	11.4	NA
	0.746				
Sample	0.772	0.759	2.4	55.9	0.248

*Actual values may vary; this data is for demonstration purposes only.



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		·······*******************************	Suitable extinguishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant fram.
	SECTION 1. Identification of the substa 1.1 Product identifier	nce/mixture and of the company/underfaking	5.2 Special hazards arising from the substance of mixture:	r Carbon oxides, Oxides of Phosphorous, Potassium, Sodium, Hydrogen Chloride g
	Trade name: Part number:	Wash Buffer Salts 50-0091, 10099	5.2 Advice for firefighters:	Wear protective equipment appropriate for fire conditions including respiratory
	 Relevant identified uses of the substance or m and uses advised against application of the su 	éxture Esstance		horani e Ben
	1 the preparation : 1.3 Details of the supplier of the safety data she Manufacturar/Supplier	Latovatory chermicals set Envirol opix Inc. 500 Disarrida Industrial Disar-	SECTION 6. Accidental release measures	
	Automotica supplier.	Portland ME 04103, USA (207) 727-0300	6.1 Personal precautions, protective equipment and emorgency procedures:	Use PPE, avoid dust fromation, ensure adequate ventilation, avoid breathing dust
	1.4 Emergency telephone number:	(207) 797-0300 Technical Service	6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
	SECTION 2. Hazards identification 2.1 Glassification of the Substance or Mixture:		6.3 Methods and material for containment and	Discharge to the environment must be avoided.
	Classification according to OSHA 29CFR 19 (Hazard Communication):	10.1200 Not a hazardous substance or mixture	cavan op:	suitable closed containers for disposal
			6.4 Reference to other sections:	For safe handling refer to Section 7; For information on PPE refer to Section 8. For disposal, refer to Section 13.
	2.2 Label Elements:	None required according to 29CFR 1910.1290	SECTION 7 Handling and storage	
	coner intecations	some	7.1 Precautions for safe handling:	Practice good chemical hygiene when handling. Avoid contact with eyes, skin and dotting. Dravatt formation of dust
	3 Additional Information:	No other information	7.2 Conditions for safe storage, including any Incompatibilities:	Keep containers closed, store in a dry, well ventilated space.
		160,50°,3237,66,039,02,26,016,46	7.3 Specific end use(s):	Apart from the uses mentioned in section 1.2, no other end uses are stipulated.
	SECTION 3. Composition/information on	ingredients		
	A2 Mixture: Powdered soli Synanyms: PBS	d	SECTION 8. Exposure controls/personal pr	otection
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	Based on the amount of hazardous ingredients in	this product, it is not considered hazardous according to 29CFR 1910.1200	8.2.2 Personal Protective Equipment: Eyes	Safety glasses with side shields, gogglas. Use equipment for eye protection tested and
	SECTION 4. First aid measures			approved under appropriate government standards such as NKOSH (US) or EN 166 (Eye and face protection regulations are described by OSHA (US) in 29CFR1910.133
Address ontal minimum of the stand sta	.1 Description of first ald measures: After inhalation	Supply fresh air, consult doctor in case of breathing difficulties.	Hawle	not wear contact lenses when working with chemicals Hendle with clause. Glours must be inspected using to use. Use summer d
<form></form>	After skin contact	Flush skin with plenty of water for at least 15 minutes. Remove contaminated olothing. Seek medical attention if irritation develops.	114103	twinite with groves, those must be inspected prior to use to be proper grower territoral technique (without touching glove's outer surface) to avoid skin contact with this worknet. Disnose of conformational closure after use in avoid skin contact with auticable loss.
	After eye contact	Rinse opened eye for several mimites under running water. Seek medical attention if irritation develops.		and good laboratory practices. Wash and dry hands. The selected protective gloves ha to satisfy the specifications of EU Directive 89/68/FEC and the standard EN 374
	After swallowing	If swallowed, consult with medical staff or poison control center to determine if any immediate response or follow up actions are recommended. Never give anything by		derived from it.
	2 Most important symptoms and effects, both	mouth to an unconscious person.	Respiratory protection	Appropriate respiratory protection should be determined according to local condition using risk analysis protecols. An approved disposable air purifying particulate respira
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QuantiPlate Kit for Microcystins - High Sensitivity Page 7 of 8

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.1 Product identifier	cantaureenator		-	3.2	Mixture Aqueous solution	IN Hydrochi	orio Acid (IN	HCI, 3 % HCI)		
Synonyms: Part marder	1.0 N HC	1000] 27 10828 11102 11276 (VG	-0007		Chemical name	Amount	CAS No	Classification According to O	SHA 29CFR 1910.1200)
1.2 Relevant identified uses of the substance or infxture and uses advised against application	10623, 100	527, 10828, 11195, 11740(NO	(1997)		Hydrochlaric acid	(76)	EC No	Hazard Classification	Hazard ()	ada
of the substance / the preparation : L3 Details of the supplier of the safety data sheet	Laboratory	chemicaly			Tryacenone aont	14.4	7647-01-0	May be Corrosive to Metals	H290	
wand actuel / supplier.	Portland M Phone: (20	E 04103, USA 171 797-0300	al rkwy.				231-595-7	Causes Skin Irritation	H315	
1.4 Emergency telephone number:	(207) 797-	0300 Technical Service						Causes Serious Eye Damage	11318	
RECTIONA THE REAL GROUP AND				1						
2.1 Classification of the substance or mixture	Hazard (Jasses								
Classification according to OSLLV29 CFR 191	0.1200 Motal Co Skin Irrit Serious E	ation (Cat 2) II250 ation (Cat 2) II315 as damage (Cat 1) H318								
				SEC	TION 4. First aid	ncasures				
1.2 Label elements Labeling according to OSHA 29CFR 1910.120	0			4.1 D A	Description of first alo fler inhalation :	l measures		In case of inhalation. Remove to fresh air.	If not breathing give ar	tificial
Hazard pictograms :	A.			A	fter skin contact :			In case of skin contact. Remove contamina Wash affected area with mild score or deter	atery. ned clothing and shoes in went for al least 10 minu	umediately. des er until ne
		1			0			evidence of chemical remains. In case of eye contact, immediately flush e	yes with plenty of water	for at least 1.
Signal word :	Warning			^	ner eye contact :			minutes. Lifting eyelids occasionally, until medical attention immediately.	I no evidence of chemica	al remains. G
Hazard statements:	H290 Mi	ity be corrosive to metals		A	fter swallowing :			In case of ingestion. DO NOT Induce vom medical personnel. Never give anything b a phasician immediately.	ating unless directed to c by mouth to an unconseic	do so by ous person. Ca
	H318 Ca	uses sorious eye damage		4.2 M	fost important sympt	oms and effe	ects, both acut	e in the second s		
Precautionary statements:	P281 P302 + P	Use personal protes 352 IF ON SKIN: Was	ctive equipment as required h with plenty of soap and water.	431	nd delayed: adication of any imm	ediate medic	al attention or	May cause skin irritation and eye damage		
	P305-P3	01+P338 IF IN EYES: Rins minutes. Remove (Continue ringing)	e cautiously with water for several contact lenses if present and easy to do.	3	pecial treatment need	led:		IX) NOT use sodium bicarbonate in an atte	empt to neutralize the aci	id.
	None	controlic titistôg.		Farm	TION 5 Fireficht	no move				
Outer Statements	0.00			5.1 E	stinguishing media:	and an easing		CO2, extinguishing powder or water spray. Figh	t larger fires with water	spray or alcoh
				5.2 8	pecial hazards arisin alxture:	g from the s	ubstance or	resistant tout. Hydrogen Chloride gas		
				5.3 A	dvice for firefighters	:		Wear protective gear appropriate for fire conditi	ions including respirator	y protective
				6.1 P	TION 6. Accident ersonal precautions, and emergency proce	al release n protective e dures:	teasures quipment ! s	n the case of spilled mixture wear gloves to prove pill, additional protection is recommended.	ent skin contact. In the c	case of a large
				6.2 E	invironmental precau	tions:	I	Do not discharge mixture to sewer system or wate	onways.	
SDS : Stop Solution (XGD007)		Revision : 13 April, 2015	Page L of 6		S : Stop Solution C	GD0075		Revision: 13 April, 2015		Page 2 c
5.3 Methods and material for containment and	0-1				TION 9. Physical	and chemic	al properties			
5.3 Methods and material for containment and deamup. 5.4 References to other wettons:	Absorb in paper 1 Lorge spills may 1 roids. For safe handline.	owel and discard in appropriate solution of the solution of th	e work: Clean will water afterwards, tices of schum rarborate or radium	5 S30	TION 9. Physical Information on basic chemical propertie) Appaarance:) (Xiles:	and obernio physical an- s:	al properties J D	laer liquud, oxforfast is slight yallow. regard (slight)		
5.3 Methods and material for containment and cleanup. 5.4 References to other sections:	Absorb in paper 1 Large spills may 1 cosida. For safe handling disposal refer to 5	owel and discard in appropriate be neutralized with offute solut refer to Section 7. For informe Section 13	reger te o se worte. Clean will water afterwards. Lixes of scollini rachenste et calcium aton en PPE affer to Section 8. For	50 50 50 50 50 50 50 50 50 50 50 50 50 5	TION 9- Physical Information on basic chemical propertie Appaarance: Odor Threshold: pH:	and chemic physical an- s:	al properties d Cl Ph Ph pi	laer liquid, oxferlast is slight yellow. regent (slight) 0.Data Available 1.1		
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QuantiPlate Kit for Microcystins - High Sensitivity Page 8 of 8

2 Persistence and degradability	No Data Available	SECTION 16. Other information
3 Bio accumulative notential:	No Dala Analuble	This information is true based on our present knowledge. However, EnviroLogix makes no representation of its accuracy or completeness.
.4 Mobility in soil :	No Data Available	Persons receiving this information must exercise their independent judgment in determining the product's sofely and initiability for its inten- use. This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual not structure.
.5 Results of PBT and vPvB assessment:	Not available as a chemical safety assessment, not required not conducted.	EHS Department
.6 Other adverse effects:	No Data Available	Enviral ogis Inc.
		 Conces: H290 May be Corrosive to Metals P281 Use Personnel Protective equipment as Required
CTION 13 Disposal considerations		H315 Causes Skin Irritation P302 + P352 IF ON SKIN: Wash with plenty of scop and water H318 Causes Serious Eve Damage P305-P351+P338 IF IN EYES: Rinse cautionsly with water for several
aste treatment methods:	Contrast a licensed professional waste disposal service to dispose of this material. Disposal of surplus or waste solutions must be in accordance with applicable local, state, and national laws and regulations.	numers. Remove e contact tenses if pressit and easy to do Cvatime rinsing.
CTION 14. Transport information .1 UN-Number DUT, ADR, ADN, IMDG, IA 2 UN proper shipping name DUT, ADR, AD	TA: UNI 789 N. IMDG, IATA: HYDROCHLORIC ACID SOLLTION	
-3 Transport hazard class(cs) DOT, ADR, Al 4 Packing group (DOT, ADR, IMDG, IATA)	DN, IMDG, IATA): 8): III	
.5 Environmental hazards	Not hazardous to the environment.	
.6 Special precautions for user :	None	
7 Transport in bulk according to Annex II and the IBC code:	No information available.	
17 Transport in bulk according to Annex II and the IBC code: and the IBC code: CIION 15. Regulatory information 13 Safety, localth and environmental regulations/selsiation specific for the	Ne information isoalable.	
1.7 Transport in bulk according to Annex II: and the IBC code: STION 15. Regulatory information .1 Safety, health and environmental regulations/egislation specific for the substance or mixture S Federal Regulations	No infermation voalable.	
17 Transpert in Judi, according to Annex II and the IDC code: sum the IDC code: STION 15. Regulatory information 1. Suffey, health and environmental regulations/regulations are used for the unbalance or mixture 15. Fordera IR egitations Teach and Safey Reporting List Chemical Teach Role CIRRCIA Starker Starker Starker CIRRCIA 50. 202 (Streinholy Hazadoris SRAS Section 502 (Streinholy Hazadoris)	CASE 7617-01-0 is not listed on the TSCA inventory; None listed None under a Chemical Tork Rule, CASE 7617-01-0 5000 Ib final KQ, 2205 Kg final RQ, CASE 7617-01-0 500 Ib final KQ, 2205 Kg final RQ.	
1.7 Transpert in fulls according to Annex II - and the IDC code: CION 15. Regulatory information 1.5 store, houlds and environmental regulations/egitations are cited for the unstance or mixture 15 15 federa Regulations TSCA and Story Reporting List (Chemical Tes Under CHEMICA - SARA Section 20 (Currently Hazardous- Substance) Clean Air Act Clean Mater Act CISIN (SGLA	CASH 7617-01-01 in the that don the TSCA investory. None Jande. None under a Chemical Tork Rule. CASH 7617-01-02 Site TDR 2005 Kg final RQ. CASH 7617-01-05 Site TDR 2005 Kg final RQ. CASH 7617-01-05 Site Site as a hundroke Stabilitone under the CWA. CASH 7617-01-01-05 in Site Site as a hundroke Stabilitone under the CWA. CASH 7617-01-01-06 is concellent lipidy hundroke Stabilitone Under Hor CWA.	
1.7 Transport in hulk according to Annex II - and the IDC code: STIC/N 15. Regulatory information 1.5 Safety, health and eaviremmental regulation begickation use efficient for the regulation begickation use efficient for the ST Forkers Regulations TSCA Hadit and Safety Reporting List Control Code State State SARA Section 302 (Extremely Hazedous- Sabasture) Clean Air Arts Safet Act and Safet Regulations S State Regulations	CAS# 7647-01-0 is not listed on the TSCA inventory. None Bard, CAS# 7647-01-0 is not listed on the TSCA inventory. None Bard, CAS# 7647-01-04 5000 httms K0, 2270 Kg fmil KQ, CAS# 7647-01-04 5000 httms K0, 2270 Kg fmil KQ, CAS# 7647-01-04 is conclusive a humbous involution (01AP), CAS# 7647-01-04 is conclusive a humbous involution (01AP), CAS# 7647-01-04 is conclusive a humbous involution (01AP), CAS# 7647-01-04 is conclusive highly hardware by OSTIA. CAS# 7647-01-04 is conclusive highly hardware by OSTIA.	
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17 Transpert in Judi, according to Annex II - and the IDC code: TCION 15. Regulatory information 13 Sifety, health and environmental regulations/regulations are click for the unbalance or mixture B Stefars IR egalations II solid and Staffy Reporting List Chemical Test Ratio CERCIA SEAAS Section 502 (Chemistry Hazardous Scienters) Scienters) Staff Report Information Staff Report Cist Code Staff Regulations REACTI No: Similar Discount Information REACTI No: Similar Discount II Staff Similar Discount II Staff Staff Regulations REACTI No: Similar Discount II Staff Staff Regulations REACTI No: Similar Discount II Staff Staff Regulations REACTI No: Similar Discount I Staff Staff Regulations II Staff Staff Regulations REACTI No: Staff Regulations II Staff Staff Regulations II	 CASP 7647-01-0 is not listed on the TSCA investory. None listed. None india <pre>Chinical Totk Rafe.</pre>CASP 7647-01-0 83000 It final KQ2 2200 Kg final KQ.CASP 7647-01-0 83000 It final KQ2 2200 Kg final KQ.CASP 7647-01-0 4500 It final a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced as a harnerfuse shartnes under the CWA.CASP 7647-01-0 is indiced as harnerfuse shartness under the CWA.CASP 7647-01-0 is indiced main fact, the annual change does not require a sequention or the request that is an indiced for an alter cognitation chandline.CASP 7647-01-01-01 is indiced on the CMA indice in the product is an indiced as the indiced shartness of the request the indiced of the request that is an indiced being the shartness of the request has a hardness shartness of the request has a hardness shartness of the require a sequention or the request hardness of the request has a hardness shartness of the request has a hardness shartness of the request has a hardness shartness of the request hardness of the r	
17 Transport in hulk according to Annex II - and the IDC code: 15 MiCey, health and cavironmental regulation behaviour of the first of the 15 MiCey, health and cavironmental regulation behaviour of the first of the 15 Forkers Regulations TSCA Hadit and Sadey Reporting List Code Ale And SARA Section 302 (Extremely Hazzedous SARA Section 302 (Extremely Hazzedous Sabastureo) OSIA State Regulations areopenn/International Regulations REACTI No: insolan Ingredient Dicklosure List 2 Clemnical Safety assessment	 CAS# 7647-01-0 is not listed on the TSCA inventory; None Ideal, CAS# 7647-01-0 is not listed on the TSCA inventory; None Ideal, CAS# 7647-01-04 5000 httms K0; 2220 Kg fmil KQ; CAS# 7647-01-04 5000 httms K0; 2220 Kg fmil KQ; CAS# 7647-01-04 is coordined highly hardrond by OSILA. CAS# 7647-01-04 is coordined highly hardrond by OSILA. CAS# 7647-01-04 is coordined highly hardrond by OSILA. CAS# 7647-01-04 is coordinated highly hardrond by OSILA. CAS# 7647-01-04 is included highly hardrond highly hardrond hardrond hardrond by CASE. CAS# 7647-01-04 is included highly hardrond hardrond by CASE. CAS# 7647-01-04 is included hardrond by CASE. CAS# 7647-01-04 is included on the Candian Ingredient Diselower List. Net canned out. 	