

Safety Data Sheet

According to OSHA 29CFR 1910.1200

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Extraction Buffer
Part number: EB17(11198, 12382)

1.2 Relevant identified uses of the substance or

mixture and uses advised against:

Extraction buffer used with the Aflatoxin FREE test kit (P/N 11178; AQ-209 BG), and with

the Aflatoxin Flex kit (P/N 12376; AQ-309). Not to be used for purposes other than those

specified in product literature.

1.3 Details of the supplier of the safety data

sheet

Manufacturer/Supplier: EnviroLogix Inc., 500 Riverside Industrial Pkwy.

Portland ME 04103, USA

Information department: Technical Service **1.4 Emergency telephone number**: (207) 797-0300

SECTION 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to OSHA 29CFR

1910.1200:

Flammable Solid category 2

Acute Toxicity Oral 4

Acute Toxicity Inhalation 4

Skin Irritation category 2

Serious eye damage category 1

H228

Flammable solid

Harmful if swallowed

Harmful if inhaled

Causes skin irritation

H318

Causes serious eye damage

H335

Specific Target Organ Toxicity

Single Exposure category 3 Aquatic Toxicity-Chronic

category 3

H412 Harmful to the environment with long lasting effects

May cause respiratory irritation

2.2 Label elements

Labeling according to OSHA 29CFR

1910.1200:

Hazard pictograms:







Signal word: Danger

Hazard statements: H228 Flammable solid.

H302 + H322 Harmful if swallowed or inhaled

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements: P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel

unwell.

P304 + P340 IF INHALED: Remove to fresh air and keep comfortable for breathing. P305 + P351 + P338 If in Eyes: Rinse cautiously with water for several minutes; remove

contact lenses if present and easy to do. Continue rinsing.

P403 + P233 Store in a well ventilated place. Keep container tightly closed

2.3 Other hazards No additional hazards listed

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SECTION 3. Composition/information on ingredients							
3.1 Substances:	Not Applicable						
3.2 Mixtures	Extraction Reagent Powder (EB17)						
	Chemical name	Chemical name CAS No EC No Amount (%) Classification					
					OSHA 29CFR1910.1200		
	Sodium Lauryl Sulfate	151-21-3	205-788-1	60 to 85	Flam. Sol. 2 H228; Acute Tox. Oral 4 H302; Acute Tox. Inhal. 4 H322; Skin		
					Irrit. 2 H315; Eye Dam. 1 H318;		
					STOT SE 3 Resp. H335; Aquatic Tox.		
					Chronic 3 H412;		
	The full text of hazard (H)	statements is sh	nown in section	on 16			

SECTION 4: FIRST AID MEASURES	
4.1 Description of first aid measures After inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
After skin contact	Flush skin with water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse.
After eye contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
After swallowing	Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms and effects, both acute and delayed	Difficulty breathing, Skin irritation, Eye irritation Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately.
4.3 Indication of any immediate medical attention and special treatment needed.	No special treatment is required

SECTION 5. Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing agents:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
5.2 Special hazards arising from the substance or mixture:	When heated to decomposition it emits toxic fumes of sulfur oxides, and sodium oxide.
5.3 Advice for firefighters Protective equipment:	Wear appropriate PPE for fire conditions including self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MI	EASURES
6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Assure adequate ventilation. Remove all sources of ignition. Evacuate personnel to a safe area. Avoid breathing dust.
6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3 Methods and material for containment and clean up:	Sweep up and shovel. Prevent entry into sewers, dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
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.

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SECTION 7. Handling and Storage	
7.1 Precautions for safe handling:	Keep away from heat. Keep away from sources of ignition. Prevent electrostatic buildup. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
7.2 Conditions for safe storage, including any incompatibilities:	Keep away from incompatibles such as oxidizing agents. Keep container tightly closed. Keep container in a cool, well-ventilated area.
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 P	rotection		
8.1 Exposure controls			
Additional information about design of			
technical systems: Exposure limits	None required		
Components with limit values that require			
monitoring at the workplace:	Chemical	Exposure Limits	
	Sodium Lauryl	OSHA Observe limits for particulate not otherwise regulated:	
	Sulfate	15 mg/m3 total dust, 5 mg/m³ respirable fraction (OSHA PEL) 10 mg/ m³ inhalable particulate, 3 mg/m³ respirable particulate. (ACGIH TLV)	
		EH40/2005 Inhalable dust: 10mg/m³; Respirable dust: 4mg/m³	
Exposure controls - Engineering Controls:			
Personal protective equipment			
		ing this material should be equipped with an eyewash and safety exhaust or general dilution ventilation.	
Breathing equipment	Appropriate respiratory protection should be determined according to local conditions using risk analysis protocols. An approved disposable air-purifying particulate respirator may be used as a backup to engineering controls. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).		
Protection of hands	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (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 practices. 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.		
Eye protection	approved under appropriately and face protection	le shields; goggles. Use equipment for eye protection tested and priate government standards such as NIOSH (US) or EN 166(EU). In regulations are described by OSHA (US) in 29 CFR 1910.133. Insess when working with chemicals.	

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SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical Extraction Reagent Powder (EB17)- no CAS number

properties

Appearance: Solid –Powder, White

Odor: Odorless
Odor threshold: not applicable
pH: 9.5 (1% sol/water)

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

No data available
No data available
No data available

Flammability(solid, gas): May be combustible at high temperature

Upper/lower flammability or explosive limits: No data available Vapor pressure No data available Vapor density: No data available Relative density No data available Solubility(ies): Soluble in water Partition coefficient: n-octanol/water; No data available No data available Auto-Ignition Temperature: Decomposition temperature: No data available No data available Viscosity: Explosive properties: No data available

Oxidizing Properties

9.2 Other information

Products of Combustion: Carbon oxides (CO, CO2), sulfur oxides (SO2, SO3...). Fire Hazards in Presence of Various Slightly flammable to flammable in presence of heat.

not applicable

Substances: Risks of explosion of the product in presence of mechanical impact: Not available.

SECTION 10. Stability and reactivity

10.1 Reactivity: Not self-reactive.

10.2 Chemical stability 10.3 Possibility of hazardous reactions:Stable under normal temperatures and pressures Reaction with strong oxidizers may cause fire.

10.4 Conditions to avoid : Heat, flames, and sparks **10.5 Incompatible materials:** Oxidizing agents (eg bleach).

10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide, sulfur oxides, carbon dioxide, nitrogen oxides, silicone

Oxides.

SECTION 11. Toxicological information	on					
Acute effects (toxicity tests):	Sodium lauryl sulfate - 15	1-21-3				
	Acute oral toxicity	Acute oral toxicity LD50= 1200 mg/kg				
Sensitization:	Acute dermal toxicity	LD50= > 2000 mg/kg	rabbit			
Additional toxicological information:	Acute inhalation toxicity	LC50= 3900 mg/m3, 1hour	rat			
	No sensitizing effects know	No sensitizing effects known				
	CMR (carcinogenicity, muta	agenicity and toxicity for reprod	uction) – no CMR effects.			

SECTION 12. Ecological information						
12.1 Toxicity: Sodium Lauryl Sulfate	Aquatic toxicity LC50	Effect dose	Exposure	Species		
Aquatic toxicity: Note: Aquatic Toxicity of	Acute fish toxicity	10.2-22.8 mg/l	96 hours	Pimephales promelas		
mixture is based on Sodium Lauryl Sulfate;	Acute daphnia toxicity	1.8 mg/l	48 hours	daphnia magna		
	Acute algae toxicity	117 mg/l	96 hours	Pseudokirchneriella subcapitata		
		53 mg/l	96 hours	Desmodesmus subspicatus		
		30-100 mg/l	96 hours	Desmodesmus subspicatus		

12.2 Persistence and degradability: Biodegradability Result: 90 % - Readily biodegradable. Ratio BOD/ThBOD 95.9 %

12.3 Bio accumulative potential : Cyprinus carpio (Carp) - 72 h Bioconcentration factor (BCF): 3.9 - 5.3

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not available as a chemical safety assessment, not required/not conducted.

12.6 Other adverse effects No others listed.

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SECTION 13. Disposal considerations

Waste treatment methods/ Uncleaned packaging: Dispose of contents and containers in accordance with local, state and federal regulations.

SECTION 14. Transport information

14.1 UN-Number DOT, ADR, ADN, IMDG, IATA: UN1325

14.2 UN proper shipping name DOT, ADR, ADN, IMDG, IATA: FLAMMABLE SOLIDS, ORGANIC, N.O.S. (Sodium dodecyl sulfate)

4.1

14.3 Transport hazard class(es)

Class (DOT, ADR, ADN, IMDG, IATA): PG111

14.4Packing group (DOT, ADR, IMDG, IATA):

14.5 Environmental hazardsNot applicable.Marine pollutant:Not applicable.14.6 Special precautions for user:Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations NFPA Rating (US)

Health hazard: 2, Fire: 1, Reactivity Hazard: 0
Health hazard: 2, Fire: 1, Reactivity Hazard: 0
TSCA 8(b) inventory: Sodium lauryl sulfate

US Federal Regulations

TSCA Listed.
Health and Safety Reporting List Not listed
CERCLA Not listed
SARA Section 302 (Extremely Hazardous

Substances)

Substances)

Clean Air Act

Clean Water Act

Not listed

Clean Water Act

OSHA

European/International Regulations

European labeling in accordance with EC Directives

This product is on the European Inventory of Existing Commercial Chemical

Substances (EINECS No. 205-788-1)

Canada – DSL/NDSL Listed

Canada – WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).

Other

China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National

Inventory (PICCS). Australia: Listed on AICS.

Not carried out.

SECTION 16. Other information

15.2 Chemical safety assessment

This information is true based on our present knowledge. However, EnviroLogix makes no representation of its accuracy or completeness. Persons receiving this information must exercise their independent judgment in determining the product's safety and suitability for its intended use. This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

EHS Department EnviroLogix Inc.

Code Definitions:

H228 Flammable solid.

H302 + H322 Harmful if swallowed or inhaled

H315Causes skin irritation.H318Causes serious eye damage.H335May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do.

Continue rinsing.

P403 + P233 Store in a well ventilated place. Keep container tightly closed

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Safety Data Sheet According to OSHA 29CFR 1910.1200

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **DB 5 Dilution Buffer** Part number 11150 (KR-266)

1.2 Relevant identified uses of the substance or mixture and uses advised against application of the substance / the preparation:

Laboratory chemicals; kit component. Not to be used for purposes other than those

specified in product literature.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

EnviroLogix Inc., 500 Riverside Industrial Pkwy.

Portland ME 04103, USA Phone: (207) 797-0300

1.4 Emergency telephone number: (207) 797-0300 Technical Service

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to 29CFR 1910.1200: Eye Damage Category 1

Aquatic Toxic, Chronic Category 2

2.2 Label elements

Labeling according to 29CFR 1910.1200:

Pictogram:





Signal word: Warning

Hazard Statements: H318 Causes serious eye damage

Precautionary Statements: H411 Toxic to aquatic life with long lasting effects

long fasting effects

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye

Protection/face protection

P305+P351+P338 IF IN EYES: Rinse cautiously with Water for several minutes. Remove contact lenses

If present and easy to do. Continue rinsing.

P337+P313 IF eye irritation persists: Get medical

attention/advice

2.3 Other Statements Restricted to professional users

SEC	SECTION 3. Composition/information on ingredients					
3.2	Mixture					
	Chemical name	CAS No	EC No	Classification According to 29CFR 1910.1200	Amount (%)	
	Sodium Tetraborate Decahydrate	1303-96-4	215-540-4	H360 Rep 1B	1 – 5 %	

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p-tertiary Octylphenoxy	9002-93-1		H302	Acute Tox. Oral 4	1 %
polyethyl alcohol			H315	Skin Irrit. 2	
(Triton X-100)			H318	Eye Dam. 1	
			H411	Aquatic Chronic 2	
Surfynol	9014-85-1		H315	Skin irritation 2	2 %
			H318	Eye damage 1	
			H335	STOT SE 3	
1,2 Benzisothiazolin-3- one (Proxel- GXL)	2634-33-5	220-120-9	H302	Acute Tox. 4; H315 Skin Irrit. 2	0.048 %
			H317	Skin Sens. 1 ($C \ge 0.05\%$)	
			H318	Eye Dam. 1; H400 Aquatic Acute 1	

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: <u>In case of inhalation</u>. Remove to fresh air. If not breathing give artificial respiration.

Get medical attention immediately.

In case of skin contact. Remove contaminated clothing and shoes immediately. Wash After skin contact:

affected area with mild soap or detergent for at least 10 minutes or until no evidence of

chemical remains.

In case of eye contact, immediately flush eyes with plenty of water for at least 15 After eye contact:

minutes. Lifting eyelids occasionally, until no evidence of chemical remains. Get

medical attention immediately.

In case of ingestion. DO NOT Induce vomiting unless directed to do so by medical After swallowing:

personnel. Never give anything by mouth to an unconscious person. Call a physician

immediately.

4.2 Most important symptoms and effects, both acute

And delayed:

None

4.3 Indication of any immediate medical attention and

special treatment needed:

None

SECTION 5. Firefighting measures	
5.1 Extinguishing media:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.2 Special hazards arising from the substance or mixture:	None
5.3 Advice for firefighters:	Wear protective gear appropriate for fire conditions including respiratory protective gear.

SECTION 6. Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures:	In the case of spilled mixture wear gloves to prevent skin contact. In the case of a large spill, additional protection is recommended.
6.2 Environmental precautions:	Do not discharge mixture to sewer system or waterways.
6.3 Methods and material for containment and cleanup:	Absorb in paper towel and discard in appropriate waste. Clean with water afterwards. Large spills may be neutralized with dilute solutions of sodium carbonate or calcium oxide.
6.4 References to other sections:	For safe handling refer to Section 7. For information on PPE refer to Section 8. For disposal refer to Section 13

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SECTION 7. Handling and storage			
7.1 Precautions for safe handling:	Practice good chemical hygiene when handling. Avoid contact with eyes, skin, and clothing.		
7.2 Conditions for safe storage, including any Incompatibilities:	Store in tightly closed, non-metal container, in a corrosive compatible area. Prevent direct sunlight and heat. Store in well aired storage rooms.		
7.3 Specific end use(s):	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated		

SECTION 8. Exposure controls/personal protection 8.1 Exposure limits:

Components with limit values that require monitoring at the workplace:

	EH40/2005	OSHA
Sodium Tetraborate Decahydrate	8 Hr TWA = 5mg/m ³	8 Hr TWA = 10 mg/m ³

8.2 Exposure Controls:

8.2.1Engineering controls Facilities using this mixture should be equipped with an eyewash and safety shower. Use

general or local exhaust ventilation to keep airborne concentrations below permissible

exposure limits.

8.2.2 General protective and hygienic

measures: The usual precautionary measures should be adhered to when handling chemicals.

Eye Protection: Safety glasses with side shields, goggles. Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Eye and face protection regulations are described by OSHA (US) in 29CFR1910.133. Do

not wear contact lenses when working with chemicals

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal

technique (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 practices. 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.

Breathing Equipment: Appropriate respiratory protection should be determined according to local conditions

using risk analysis protocols. An approved disposable air purifying particulate respirator may be used as a backup to engineering controls. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

(EU).

8.2.3 Environmental exposure controls: Contain spills, do not allow into environment

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

a) Appearance: Clear liquid, colorless to slight yellow.

b) Odor: None

c) Odor Threshold: No Data Available

d) pH: 8.6

e) Melting point/freezing point:
f) Boiling point/Boiling range:
g) Flash point:
No Data Available.
Not applicable.
h) Evaporation rate:
No Data Available

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i) Flammability (solid, gaseous): No Data Available j) Upper/lower flammability or explosive limits: No Data Available k) Vapor pressure: No Data Available 1) Vapor density No Data Available m) Relative density: No Data Available n) Solubility(ies): Fully miscible, water. o) Partition Coefficient: n-Octanol/water: No Data Available p) Auto-ignition temperature: No Data Available q) Decomposition temperature: No Data Available r) Viscosity: No Data Available s) Explosive properties: No Data Available. t) Oxidizing properties: No Data Available **9.2** Other information: No further relevant information available.

SECTION 10. Stability and reactivity		
10.1 Reactivity:	No data available	
10.2 Chemical Stability:	Stable under normal temperatures and pressures.	
10.3 Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.	
10 4 Conditions to avoid:	No specific data	
10.5 Incompatible materials:	No Data Available.	
10.6 Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decompositions products should not be produced.	

SECTION 11. Toxicological information

Information on Toxicological Effects

Triton X-100

Acute toxicity: Oral LD50 –Rat- 1800mg/kg

Dermal LD50- Rabbit- 8000 mg/kg

Sensitization:

No sensitizing effects known

CMR (carcinogenity, mutagenicity and toxicity for reproduction) effects:

No CMR effects.

Additional toxicological information: No Additional Information

SECTION 12. Ecological information

12.1 Toxicity:

Triton X-100 Fish: LC50 Pimephales promelas (fathead minnow) – 8.9mg/l – 96.0 hr

Daphnia: EC50 – Daphnia – 26 mg/l – 48 hr

12.2 Persistence and degradability :

No Data Available

12.3 Bio accumulative potential:

No Data Available

12.4 Mobility in soil:

No Data Available

12.5 Results of PBT and vPvB assessment:

Not available as a chemical safety assessment, not required/not conducted.

12.6 Other adverse effects:

No Data Available

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SECTION 13. Disposal considerations

Waste treatment methods:

Contact 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.

SECTION 14. Transport information

14.1 UN-Number DOT, ADR, ADN, IMDG, IATA: Not Hazardous for Transport **14.2 UN proper shipping name** DOT, ADR, ADN, IMDG, IATA: Not Hazardous for Transport

14.3 Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA): Not Hazardous for Transport

14.4 Packing group (DOT, ADR, IMDG, IATA): Not Hazardous for Transport Not Hazardous for Transport

14.5 Environmental hazardsNo environmental hazard.

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL73/78

and the IBC code:

No information available.

SECTION 15. Regulatory information

15.1 Safety, health, and environmental

regulations

US Federal Regulations

OSHA Not a hazardous material

SARA 313 Not listed

US State Regulations

European/International Regulations

European labeling in accordance with EC Directives

Not hazardous according to European directives

15.2 Chemical Safety Assessment Not carried out

SECTION 16. Other information

This information is based on our present knowledge. However, EnviroLogix makes no representation of its accuracy or completeness. Persons receiving this information must exercise their independent judgment in determining the product's safety and suitability for its intended use. This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

EHS Department

EnviroLogix Inc.

Codes:

H302 Harmful if swallowed H315 Causes skin irritation

H317 May cause an allergic skin reaction

H317 May cause an allergic skin reaction H318 Causes Serious Eye Damage

H335 May cause respiratory irritation

H411 Toxic to Aquatic Life with Long Lasting Effects

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