ZeptoMetrix[®]

SAFETY DATA SHEET (SDS)

Product Name: Catalog Number: Product ID Number (CAS #) Intended use of the product:

ZeptoMetrix LLC

878 Main Street Buffalo, New York 14202 USA Phone: (716) 882-0920 Fax: (716) 882-0959 Emergency telephone number: TBARS Assay Kit 0801192 No Data Available For research or further manufacturing only.

(716) 882-0920 or 1 (800) 274-5487 (US Toll Free) Monday-Friday 8:15 am- 4:45 pm EST

Component Number	Component Description	Hazard Identifications
0720001	TBARS Diluent 1	
0720002	TBARS Diluent 2	
0720003	Thiobarbituric Acid	None
0720004	SDS Solution	\Diamond
0720005	MDA Diluent	None
0720006	MDA Standard	None



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SECTION 1: IDENTIFICATION

1.1. Product Identifier Product Form: Mixture Product Name: TBARS DILUENT 1 Product Code: 0720001 (Part of 0801192)

1.2. Intended Use of the Product

Use of the Substance/Mixture: For research use only – Component of the following kits: TBARS (Thiobarbituric Acid Reactive Substances) Assay Kit (160 tests)

1.3. Name, Address, and Telephone of the Responsible Party

Company ZeptoMetrix LLC 878 Main Street Buffalo, NY 14202 1-800-274-5487

1.4. Emergency Telephone Number

Emergency Number

: INFOTRAC: (US) 1-800-535-5053 (Outside US) 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the		
GHS-US Classification		
Met. Corr. 1	H290	
Skin Corr. 1C	H314	
Eye Dam. 1	H318	
Full text of hazard classes and	H-statements	: see section 16
2.2. Label Elements		
GHS-US Labeling		
Hazard Pictograms (GHS-US))	CH505
Signal Word (GHS-US)		: Danger
Hazard Statements (GHS-US)	: H290 - May be corrosive to metals.
		H314 - Causes severe skin burns and eye damage.
		H318 - Causes serious eye damage.
Precautionary Statements (G	GHS-US)	: P234 - Keep only in original container.
		P260 - Do not breathe vapors, mist, or spray.
		P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
		P280 - Wear protective gloves, protective clothing, and eye protection.
		P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
		P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated
		clothing. Rinse skin with water/shower.
		P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position 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.
		P310 - Immediately call a poison center or doctor.
		P321 - Specific treatment (see section 4 on this SDS).
		P363 - Wash contaminated clothing before reuse.
		P390 - Absorb spillage to prevent material-damage.
		P405 - Store locked up.
		P406 - Store in corrosive resistant container with a resistant inner liner.

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P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%*	GHS US classification
Acetic acid	Acetic acid, glacial / Ethanoic acid / Ethylic acid / Vinegar acid / ACETIC ACID / Acetic acid solution / Acetic acid% / acetic acid	(CAS-No.) 64-19-7	10-30	Flam. Liq. 3, H226 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

* - Full text of H-phrases: see section 16. The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

First-aid Measures After Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Get medical advice/attention.

First-aid Measures After Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

First-aid Measures After Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes severe skin burns and eye damage.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. **Chronic Symptoms:** None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO₂).

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Liquid spill: neutralize with powdered limestone or sodium bicarbonate. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals. May release corrosive vapors.

Precautions for Safe Handling: Do not breathe vapors, mist, and spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in corrosive resistant container with a resistant inner liner. Store in original container or corrosive resistant and/or lined container. Store locked up/in a secure area.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Metals. May be corrosive to metals.

Packaging materials: Store in corrosive resistant/... container with a resistant inner liner.

7.3. Specific End Use(s)

For research use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Acetic acid (64-19-7)	
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	15 ppm
USA NIOSH	NIOSH REL (TWA)	25 mg/m ³
USA NIOSH	NIOSH REL TWA [ppm]	10 ppm
USA NIOSH	NIOSH REL (STEL)	37 mg/m ³
USA NIOSH	NIOSH REL STEL [ppm]	15 ppm
USA IDLH	IDLH [ppm]	50 ppm
USA OSHA	OSHA PEL (TWA) [1]	25 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	10 ppm

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Other Information

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8.2. Exposure Controls

o.z. Exposure controls	
Appropriate Engineering Controls	 Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal Protective Equipment	: Gloves. Protective clothing. Safety glasses with side-shields. Face shield. Insufficient ventilation: wear respiratory protection.
Materials for Protective Clothing	: Chemically resistant materials and fabrics. Corrosion-proof clothing.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Safety glasses with side-shields. Faceshield as determined by task.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory

- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

areroperties
: Liquid
: No data available
: Vinegar-like
: No data available
: Not applicable
: No data available

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers. Metals. May be corrosive to metals.

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10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

Acetic acid (64-19-7)

LD50 Oral Rat

3310 mg/kg

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. **Chronic Symptoms:** None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General	: Not classified.
Acetic acid (64-19-7)	
LC50 Fish 1	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and Degradability

TBARS DILUENT 1	
Persistence and Degradability	Not established.
12.3. Bioaccumulative Potential	
TBARS DILUENT 1	
Bioaccumulative Potential	Not expected to bioaccumulate.
Acetic acid (64-19-7)	
Partition coefficient n-octanol/water (Log	-0.31 (at 20 °C)
Pow)	
12.4. Mobility in Soil	
TBARS DILUENT 1	
Ecology - Soil	Leaches if exposed to water.
12.5. Other Adverse Effects	
Other Adverse Effects	: May cause pH changes in aqueous ecological systems.

Other Information

: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Treatment Methods: Cautiously neutralize remainder. Product contaminated with biological materials should preferably be incinerated.

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

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Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

14.2.	In Accordance with I	M	DG
ERG Nu	mber	:	153
Packing	Group	:	III
Label C	odes	:	8
Identifi	cation Number	:	UN2790
Hazard	Class	:	8
Proper	Shipping Name	:	ACETIC ACID SOLUTION
		-	-

Proper Shipping Name	: ACETIC ACID SOLUTION
Hazard Class	: 8
Identification Number	: UN2790
Packing Group	: 111
Label Codes	: 8
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B

14.3. In Accordance with IATA

Proper Shipping Name	: ACETIC ACID SOLUTION
Packing Group	: 111
Identification Number	: UN2790
Hazard Class	: 8
Label Codes	: 8
ERG Code (IATA)	: 8L

As part of a kit

14.1. In Accordance with DC	т	
Proper Shipping Name	: CHEMICAL KITS	
Hazard Class	: 9	
Identification Number	: UN3316	
Label Codes	: 9	9
Packing Group	: Il or III	Ŷ
	(Dependent upon all components)	
Marine Pollutant	: Marine pollutant	
ERG Number	: 171	
14.2. In Accordance with IM	DG	
Proper Shipping Name	: CHEMICAL KIT	
Hazard Class	: 9	
Identification Number	: UN3316	
Label Codes	: 9	
EmS-No. (Fire)	: F-A	
EmS-No. (Spillage)	: S-P	9
Marine Pollutant	: Marine pollutant	
14.3. In Accordance with IA	ГА	
Proper Shipping Name	: CHEMICAL KIT	
Identification Number	: UN3316	
Hazard Class	: 9	
Label Codes	: 9	9







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ERG Code (IATA)

: 9L

SECTION 15: REGULATORY INFORMATION	
15.1. US Federal Regulations	
TBARS DILUENT 1	
SARA Section 311/312 Hazard Classes	Physical hazard - Corrosive to metals
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Skin corrosion or Irritation

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Acetic acid (64-19-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

CERCLA RQ

5000 lb

15.2. US State Regulations

Acetic acid (64-19-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision Other Information

: 10/05/2022 Rev:00

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 3	Flammable liquids Category 3
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1C	Skin corrosion/irritation Category 1C
H226	Flammable liquid and vapor
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H402	Harmful to aquatic life

DISCLAIMER

The information, data and any recommendations contained herein ("Information") is based upon available information believed by ZeptoMetrix LLC to be reliable, however ZEPTOMETRIX neither warrants or assumes any liability for the accuracy or completeness of the Information. ZEPTOMETRIX MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED (INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) WITH REGARD TO THE MATERIALS OR INFORMATION DESCRIBED HEREIN, THAT THE MATERIALS WILL NOT POSE A SAFETY OR HEALTH RISK, OR THAT THE MATERIALS WILL ACCOMPLISH ANY PARTICULAR RESULT.

All materials and mixtures may present unknown hazards and should be handled and used with caution. When necessary or appropriate, independent opinion regarding the risk of handling or exposure should be obtained from trained professionals.

SDS US (GHS HazCom)



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SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture Product Name: TBARS DILUENT 2 Product Code: 0720002 (Part of 0801192)

1.2. Intended Use of the Product

Use of the Substance/Mixture: For research use only – Component of the following kits: TBARS (Thiobarbituric Acid Reactive Substances) Assay Kit (160 tests)

1.3. Name, Address, and Telephone of the Responsible Party

Company

ZeptoMetrix LLC 878 Main Street Buffalo, NY 14202 1-800-274-5487

1.4. Emergency Telephone Number

Emergency Number

: INFOTRAC: (US) 1-800-535-5053 (Outside US) 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US	Classification
0113-03	Classification

Met. Corr. 1	H290
Skin Corr. 1C	H314
Eye Dam. 1	H318
Full text of hazard classes a	nd H-statements : see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



	GHS05
Signal Word (GHS-US)	: Danger
Hazard Statements (GHS-US)	: H290 - May be corrosive to metals.
	H314 - Causes severe skin burns and eye damage.
	H318 - Causes serious eye damage.
Precautionary Statements (GHS-US)	: P234 - Keep only in original container.
	P260 - Do not breathe vapors, mist, or spray.
	P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
	P280 - Wear protective gloves, protective clothing, and eye protection.
	P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
	P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position
	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.
	P310 - Immediately call a poison center or doctor.
	P321 - Specific treatment (see section 4 on this SDS).
	P363 - Wash contaminated clothing before reuse.
	P390 - Absorb spillage to prevent material-damage.
	P405 - Store locked up.
	P406 - Store in corrosive resistant container with a resistant inner liner.
	P501 - Dispose of contents/container in accordance with local, regional, national,
	and international regulations.

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2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%*	GHS US classification
Sodium hydroxide	Caustic soda / Sodium hydroxide (Na(OH)) / SODIUM HYDROXIDE / LYE	(CAS-No.) 1310-73-2	1-5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402

* - Full text of H-phrases: see section 16. The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

First-aid Measures After Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid Measures After Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

First-aid Measures After Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes severe skin burns and eye damage.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. **Chronic Symptoms:** None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is not flammable.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Sodium oxides.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Take up liquid spill into absorbent material or neutralize with sodium bicarbonate or citric acid. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals. May release corrosive vapors. In prolonged contact with reactive metals, may release hydrogen gas. Material may be biologically contaminated with pathogenic organisms. Precautions for Safe Handling: Do not breathe vapors, mist, and spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Handle empty

containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in corrosive resistant container with a resistant inner liner. Store in original container or corrosive resistant and/or lined container. Store locked up/in a secure area.

Incompatible Materials: Metals. Acids. Glass. May be corrosive to metals. In prolonged contact with reactive metals, may release hydrogen gas.

Packaging materials: Store in corrosive resistant container with a resistant inner liner.

7.3. Specific End Use(s)

For research use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH OEL Ceiling	2 mg/m ³
USA NIOSH	NIOSH REL (Ceiling)	2 mg/m ³
USA IDLH	IDLH	10 mg/m ³
USA OSHA	OSHA PEL (TWA) [1]	2 mg/m ³

8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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Personal Protective Equipment	: Gloves. Protective clothing. Safety glasses. Face shield. Insufficient ventilation: wear respiratory protection.
Materials for Protective Clothing	: Chemically resistant materials and fabrics. Corrosion-proof clothing.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Chemical safety goggles or safety glasses with side shields. Wear face shield where splash hazard exists.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory
	protection should be worn. In case of inadequate ventilation, oxygen deficient
	atmosphere, or where exposure levels are not known wear approved respiratory
	protection.
Other Information	: When using, do not eat, drink or smoke.
SECTION 9: PHYSICAL AND CHEM	ICAL PROPERTIES
9.1. Information on Basic Physic	al and Chemical Properties
Physical State	: Liquid
Appearance	: No data available
Odor	: No data available
Odor Threshold	: No data available
рН	: > 12.5 (Estimate)
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Wate	
Viscosity	: No data available
9.2. Other Information	

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

10.2. **Chemical Stability**

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur. In prolonged contact with reactive metals, may release hydrogen gas.

10.4. **Conditions to Avoid**

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. **Incompatible Materials**

Metals. Acids. Glass. May be corrosive to metals. In prolonged contact with reactive metals, may release hydrogen gas.

10.6. **Hazardous Decomposition Products**

Sodium oxides.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

Sodium hydroxide (1310-73-2)

LD50 Oral Rat

325 mg/kg

Skin Corrosion/Irritation: Causes severe skin burns.

pH: > 12.5 (Estimate)

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: > 12.5 (Estimate)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

Ecology - General	: Not classified.	
Sodium hydroxide (1310-73-2)		
LC50 Fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 - Crustacea [1]	40 mg/l	
12.2. Persistence and Degradability	Y	
TBARS DILUENT 2		
Persistence and Degradability	Inorganic product which cannot be eliminated from water by biological	
	purification processes.	
12.3. Bioaccumulative Potential		
TBARS DILUENT 2		
Bioaccumulative Potential Not expected to bioaccumulate.		
12.4. Mobility in Soil		
TBARS DILUENT 2		
Ecology - Soil	Leaches if exposed to water.	
12.5. Other Adverse Effects		

Other Adverse Effects

Other Information

- : None known.
- : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Treatment Methods: Neutralize collected waste before discharge. Incineration is also an acceptable method for disposal. **Sewage Disposal Recommendations:** Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions. Biologically contaminated materials should be incinerated.

Ecology - Waste Materials: Avoid release to the environment.

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SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

•	the of variables that may of may not have be	en known at the th
14.1. In Accordance wit		
Proper Shipping Name	: SODIUM HYDROXIDE SOLUTION	<u>`</u>
Hazard Class	: 8	
Identification Number	: UN1824	
Label Codes	: 8	8
Packing Group	: 111	Ŷ
ERG Number	: 154	
14.2. In Accordance wit	th IMDG	
Proper Shipping Name	: SODIUM HYDROXIDE SOLUTION	
Hazard Class	: 8	
Identification Number	: UN1824	
Packing Group	: 111	
Label Codes	: 8	8
EmS-No. (Fire)	: F-A	
EmS-No. (Spillage)	: S-B	
14.3. In Accordance wit	h IATA	
Proper Shipping Name	: SODIUM HYDROXIDE SOLUTION	
Packing Group	: 111	^
Identification Number	: UN1824	
Hazard Class	: 8	
Label Codes	: 8	8
ERG Code (IATA)	: 8L	
SECTION 15: REGULATOR	Y INFORMATION	
15.1 LIS Federal Regula	ations	

15.1. US Federal Regulations

TBARS DILUENT 2	
SARA Section 311/312 Hazard Classes	Physical hazard - Corrosive to metals
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Skin corrosion or Irritation

1000 lb

Sodium hydroxide (1310-73-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

CERCLA RQ

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

Sodium hydroxide (1310-73-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision
Other Information

: 10/05/2022 Rev: 00

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

ſ	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3

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Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1C	Skin corrosion/irritation Category 1C
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H402	Harmful to aquatic life

DISCLAIMER

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All materials and mixtures may present unknown hazards and should be handled and used with caution. When necessary or appropriate, independent opinion regarding the risk of handling or exposure should be obtained from trained professionals.

SDS US (GHS HazCom)



Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

SECTION 1: IDENTIFICATION

1.1.	Product Identifier
Prod	uct Form: Substance
Prod	uct Name: THIOBARBITURIC ACID
CAS-	No.: 504-17-6
Prod	uct Code: 0720003 (Part of 0801192)

1.2. Intended Use of the Product

Use of the Substance/Mixture: For research use only – Component of the following kits: TBARS (Thiobarbituric Acid Reactive Substances) Assay Kit (160 tests)

1.3. Name, Address, and Telephone of the Responsible Party

Company ZeptoMetrix LLC 878 Main Street Buffalo, NY 14202 1-800-274-5487

1.4. Emergency Telephone Number

Emergency Number

: INFOTRAC: (US) 1-800-535-5053 (Outside US) 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Not classified

2.2. Label Elements

GHS-US Labeling

No labeling applicable according to 29 CFR 1910.1200.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name

:THIOBARBITURIC ACID

entifier	%	GHS US classification
504-17-6	100	Not classified

3.2. Mixture

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

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Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon and nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Material may be biologically contaminated with pathogenic organisms. Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

For research use only

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

8.2. Exposure Controls

Appropriate Engineering Controls

Personal Protective Equipment

- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- : Gloves. Protective clothing. Safety glasses.



Materials for Protective Clothing Hand Protection Eye and Face Protection Skin and Body Protection Respiratory Protection

Other Information

- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles or safety glasses with side shields.
- : Wear suitable protective clothing.
- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1.	Information on Basic Physical and Chemical Properties
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9.1. Information on basic Physical and Cr	nemical Properties	
Physical State	: Liquid	
Appearance	: Lyophilized	
Odor	: No data available	
Odor Threshold	: No data available	
рН	: No data available	
Evaporation Rate	: No data available	
Melting Point	: No data available	
Freezing Point	: No data available	
Boiling Point	: No data available	
Flash Point	: No data available	
Auto-ignition Temperature	: No data available	
Decomposition Temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapor Pressure	: No data available	
Relative Vapor Density at 20°C	: No data available	
Relative Density	: No data available	
Solubility	: No data available	
Partition Coefficient: N-Octanol/Water	: No data available	
Viscosity	: No data available	
9.2. Other Information		

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

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Strong acids, strong bases, strong oxidizers.	
10.6. Hazardous Decomposition Products	
Thermal decomposition may produce: Carbon an	
SECTION 11: TOXICOLOGICAL INFORMATION	
11.1. Information on Toxicological Effects	
Acute Toxicity (Oral): Not classified	
Acute Toxicity (Dermal): Not classified	
Acute Toxicity (Inhalation): Not classified	
4,6(1H,5H)-Pyrimidinedione, dihydro-2-thioxo-	(504-17-6)
LD50 Oral Rat	> 5 g/kg
Skin Corrosion/Irritation: Not classified	> 2 8/ KB
-	
Serious Eye Damage/Irritation: Not classified	
Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified	
Carcinogenicity: Not classified	
Reproductive Toxicity: Not classified Specific Target Organ Toxicity (Single Exposure):	Not classified
Specific Target Organ Toxicity (Repeated Exposu	irej: Not classified
Aspiration Hazard: Not classified	
Symptoms/Injuries After Inhalation: Prolonged e	
Symptoms/Injuries After Skin Contact: Prolonge	
Symptoms/Injuries After Eye Contact: May caus	
Symptoms/Injuries After Ingestion: Ingestion ma Chronic Symptoms: None known.	ay cause auverse effects.
SECTION 12: ECOLOGICAL INFORMATION	
12.1. Toxicity	t classified
12.1.ToxicityEcology - General: Notes	t classified.
12.1.ToxicityEcology - General: Not12.2.Persistence and Degradability	t classified.
12.1.ToxicityEcology - General: Not12.2.Persistence and DegradabilityTHIOBARBITURIC ACID (504-17-6)	
12.1. Toxicity Ecology - General : Not 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability	t classified. Not established.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential	
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability N 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6)	Not established.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability N 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential	
12.1. Toxicity Ecology - General : Not 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential 12.4. Mobility in Soil	Not established.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential 12.4. Mobility in Soil THIOBARBITURIC ACID (504-17-6)	Not established. Not expected to bioaccumulate.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential 12.4. Mobility in Soil THIOBARBITURIC ACID (504-17-6) Ecology - Soil	Not established.
12.1. Toxicity Ecology - General : Not 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects	Not established. Not expected to bioaccumulate. Leaches if exposed to water.
12.1. Toxicity Ecology - General : Not 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects Other Adverse Effects	Not established. Not expected to bioaccumulate. Leaches if exposed to water. : None known.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Ecology - Soil L 12.5. Other Adverse Effects Other Information	Not established. Not expected to bioaccumulate. Leaches if exposed to water.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects Other Adverse Effects Other Information SECTION 13: DISPOSAL CONSIDERATIONS	Not established. Not expected to bioaccumulate. Leaches if exposed to water. : None known.
12.1. Toxicity Ecology - General : Not 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects Other Adverse Effects Other Information SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste Treatment Methods	Not established. Not expected to bioaccumulate. Leaches if exposed to water. : None known. : Avoid release to the environment.
12.1. Toxicity Ecology - General : Not 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects Other Adverse Effects Other Information SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste Treatment Methods Waste Treatment Methods: Can be landfilled or	Not established. Not expected to bioaccumulate. Leaches if exposed to water. : None known. : Avoid release to the environment. incinerated, when in compliance with local regulations.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential 12.4. Mobility in Soil THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects Other Adverse Effects Other Information SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste Treatment Methods Waste Treatment Methods: Can be landfilled or Sewage Disposal Recommendations: Do not dis	Not established. Not expected to bioaccumulate. Leaches if exposed to water. : None known. : Avoid release to the environment. : incinerated, when in compliance with local regulations. pose of waste into sewer.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability N 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential 12.4. Mobility in Soil THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects Other Adverse Effects Other Information SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste Treatment Methods Waste Treatment Methods: Can be landfilled or Sewage Disposal Recommendations: Do not dis Waste Disposal Recommendations: Dispose of commendations	Not established. Not expected to bioaccumulate. Leaches if exposed to water. : None known. : Avoid release to the environment. incinerated, when in compliance with local regulations.
12.1. Toxicity Ecology - General : Nor 12.2. Persistence and Degradability THIOBARBITURIC ACID (504-17-6) Persistence and Degradability N 12.3. Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential THIOBARBITURIC ACID (504-17-6) Bioaccumulative Potential 12.4. Mobility in Soil THIOBARBITURIC ACID (504-17-6) Ecology - Soil 12.5. Other Adverse Effects Other Adverse Effects Other Information SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste Treatment Methods Waste Treatment Methods: Can be landfilled or Sewage Disposal Recommendations: Do not dis Waste Disposal Recommendations: Dispose of or regulations.	Not established. Not expected to bioaccumulate. Leaches if exposed to water. : None known. : Avoid release to the environment. incinerated, when in compliance with local regulations. pose of waste into sewer. contents/container in accordance with local, regional, national, and international
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Not regulated for transport

In Accordance with IMDG 14.2.

Not regulated for transport

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14.3. In Accordance with IATA

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

4,6(1H,5H)-Pyrimidinedione, dihydro-2-thioxo- (504-17-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

:

Date of Preparation or Latest Revision Other Information : 10/05/2022 Rev: 00

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

DISCLAIMER

The information, data and any recommendations contained herein ("Information") is based upon available information believed by ZeptoMetrix LLC to be reliable, however ZEPTOMETRIX neither warrants or assumes any liability for the accuracy or completeness of the Information. ZEPTOMETRIX MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED (INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) WITH REGARD TO THE MATERIALS OR INFORMATION DESCRIBED HEREIN, THAT THE MATERIALS WILL NOT POSE A SAFETY OR HEALTH RISK, OR THAT THE MATERIALS WILL ACCOMPLISH ANY PARTICULAR RESULT.

All materials and mixtures may present unknown hazards and should be handled and used with caution. When necessary or appropriate, independent opinion regarding the risk of handling or exposure should be obtained from trained professionals.

SDS US (GHS HazCom)



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SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture Product Name: SDS SOLUTION 8.1% Product Code: 0720004 (Part of 0801192)

1.2. Intended Use of the Product

Use of the Substance/Mixture: For research use only – Component of the following kits: TBARS (Thiobarbituric Acid Reactive Substances) Assay Kit (160 tests)

1.3. Name, Address, and Telephone of the Responsible Party

Company

ZeptoMetrix LLC 878 Main Street Buffalo, NY 14202 1-800-274-5487

1.4. Emergency Telephone Number

Emergency Number

: INFOTRAC: (US) 1-800-535-5053 (Outside US) 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US	Classification
0113-03	Classification

Eye Dam. 1	H318
Aquatic Acute 3	H402
Full text of hazard classes and	H-statements : see section 16

2.2 .	Label Elements	50
Z.Z.		

2.2. Label Eleme GHS-US Labeling

Hazard Pictograms (GHS-US)

	GHS05
Signal Word (GHS-US)	: Danger
Hazard Statements (GHS-US)	: H318 - Causes serious eye damage.
	H402 - Harmful to aquatic life.
Precautionary Statements (GHS-US)	: P273 - Avoid release to the environment.
	P280 - Wear protective gloves, protective clothing, and eye 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.
	P310 - Immediately call a poison center or doctor.
	P501 - Dispose of contents/container in accordance with local, regional, national, and

international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product	%*	GHS US classification
		Identifier		

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Sodium lauryl sulfate	Dodecyl sodium sulfate / Dodecyl sulfate, sodium / Dodecyl sulfate, sodium salt / Sodium dodecyl sulfate / Sodium dodecyl sulphate / Sodium lauryl sulphate / Sodium monododecyl sulfate / Sodium monolauryl sulfate / Sodium n-dodecyl sulfate / Sulfuric acid, monododecyl ester, sodium salt / Dodecyl sodium sulphate / Sulfuric acid monododecyl ester sodium salt (1:1) / Carsonol SLS special / SODIUM LAURYL SULFATE / Dodecyl sulphate sodium / Sodium dodecan-1-yl sulfate / Dodecylsulphuric acid, sodium salt	(CAS-No.) 151-21-3		Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412 Comb. Dust
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* - Full text of H-phrases: see section 16. The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes serious eye damage.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO₂).

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

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Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Material may be biologically contaminated with pathogenic organisms. Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Do not get in eyes, on skin, or on clothing. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

For research use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

8.2. Exposure Controls

Appropriate Engineering Controls

- : Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Personal Protective Equipment
- : Gloves. Protective clothing. Safety glasses.

Materials for Protective Clothing Hand Protection Eye and Face Protection Skin and Body Protection Respiratory Protection

- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles or safety glasses with side shields.
- : Wear suitable protective clothing.
- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1.	Information on Basic Physical an	d Chemical F	Properties
Physi	ical State	:	Liquid
Appe	arance	:	No data available
Odor		:	No data available
Odor	Threshold	:	No data available
рН		:	No data available
Evap	oration Rate	:	No data available
Melti	ing Point	:	No data available

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Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available : No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity 9.2. Other Information	
No additional information available	
SECTION 10: STABILITY AND REACTIVITY	
10.1. Reactivity	
Hazardous reactions will not occur under normal c	onditions.
10.2. Chemical Stability	
Stable under recommended handling and storage	conditions (see section 7).
10.3. Possibility of Hazardous Reactions	
Hazardous polymerization will not occur.	
10.4. Conditions to Avoid	
Direct sunlight, extremely high or low temperature	s, and incompatible materials.
10.5. Incompatible Materials	
Strong acids, strong bases, strong oxidizers.	
10.6. Hazardous Decomposition Products	
Thermal decomposition may produce: Carbon oxid	
SECTION 11: TOXICOLOGICAL INFORMATIO	Ν
11.1. Information on Toxicological Effects	
Acute Toxicity (Oral): Not classified	
Acute Toxicity (Dermal): Not classified	
Acute Toxicity (Inhalation): Not classified	
Sodium lauryl sulfate (151-21-3)	
LD50 Oral Rat	1288 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 3900 mg/m ³ (Exposure time: 1 h)
Skin Corrosion/Irritation: Not classified	
Serious Eye Damage/Irritation: Causes serious eye	damage.
Respiratory or Skin Sensitization: Not classified	
Germ Cell Mutagenicity: Not classified	
Carcinogenicity: Not classified	
Reproductive Toxicity: Not classified	
Specific Target Organ Toxicity (Single Exposure): N	lot classified
Specific Target Organ Toxicity (Repeated Exposure	e): Not classified
Aspiration Hazard: Not classified	
Symptoms/Injuries After Inhalation: Prolonged ex	posure may cause irritation.
Symptoms/Injuries After Skin Contact: Prolonged	
Symptoms/Injuries After Eye Contact: Causes per	
Symptoms/Injuries After Ingestion: Ingestion may	
Chronic Symptoms: None expected under normal	
SECTION 12: ECOLOGICAL INFORMATION	
12.1. Toxicity	
-	iful to aquatic life.

Sodium lauryl sulfate (151-21-3)

EN (English US)

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LC50 Fish 1	8 (8 – 12.5) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	1.8 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	15 (15 – 18.9) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
NOEC Chronic Crustacea	0.88 mg/l
12.2. Persistence and Degradability	
SDS SOLUTION 8.1%	
Persistence and Degradability	Not established.
12.3. Bioaccumulative Potential	
SDS SOLUTION 8.1%	
Bioaccumulative Potential	Not expected to bioaccumulate.
Sodium lauryl sulfate (151-21-3)	
BCF Fish 1	(will not bioconcentrate)
Partition coefficient n-octanol/water (Log	1.6
Pow)	
12.4. Mobility in Soil	
SDS SOLUTION 8.1%	
Ecology - Soil	Leaches into groundwater.
12.5. Other Adverse Effects	
Other Adverse Effects	: None known.
Other Information	: Avoid release to the environment.
SECTION 13: DISPOSAL CONSIDERATI	
13.1. Waste Treatment Methods	
vaste meatment methods. Can be landh	
Source Disposal Recommendations, Dor	led or incinerated, when in compliance with local regulations.
Sewage Disposal Recommendations: Do r	ot dispose of waste into sewer.
Waste Disposal Recommendations: Dispo	
Waste Disposal Recommendations: Disporegulations.	ot dispose of waste into sewer. se of contents/container in accordance with local, regional, national, and international
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 Waste Disposal Recommendations: Disporegulations. Additional Information: Biologically conta Ecology - Waste Materials: Avoid release to of sewers and waterways. 	ot dispose of waste into sewer. se of contents/container in accordance with local, regional, national, and international minated materials should be incinerated. to the environment. This material is hazardous to the aquatic environment. Keep out
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GHS Full Text Phrases:

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Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Sol. 2	Flammable solids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H228	Flammable solid
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

DISCLAIMER

The information, data and any recommendations contained herein ("Information") is based upon available information believed by ZeptoMetrix LLC to be reliable, however ZEPTOMETRIX neither warrants or assumes any liability for the accuracy or completeness of the Information. ZEPTOMETRIX MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED (INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) WITH REGARD TO THE MATERIALS OR INFORMATION DESCRIBED HEREIN, THAT THE MATERIALS WILL NOT POSE A SAFETY OR HEALTH RISK, OR THAT THE MATERIALS WILL ACCOMPLISH ANY PARTICULAR RESULT.

All materials and mixtures may present unknown hazards and should be handled and used with caution. When necessary or appropriate, independent opinion regarding the risk of handling or exposure should be obtained from trained professionals.

SDS US (GHS HazCom)



Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

SECTION 1: IDENTIFICATION

Product Identifier 1.1. Product Form: Substance Product Name: MDA DILUENT CAS-No.: Not Disclosed **Product Code:** 0720005 (Part of 0801192) 1.2. Intended Use of the Product Use of the Substance/Mixture: For research use only – Component of the following kits: TBARS (Thiobarbituric Acid Reactive Substances) Assay Kit (160 tests) Name, Address, and Telephone of the Responsible Party 1.3. Company ZeptoMetrix LLC 878 Main Street Buffalo, NY 14202 1-800-274-5487 **Emergency Telephone Number** 1.4. **Emergency Number** : INFOTRAC:

: INFOTRAC: (US) 1-800-535-5053 (Outside US) 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification Not classified

2.2. Label Elements

GHS-US Labeling

No labeling applicable according to 29 CFR 1910.1200.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: the ingredients of this mixture are not required to be disclosed.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: No irritation is expected.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

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Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Material may be biologically contaminated with pathogenic organisms. Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: None known.

7.3. Specific End Use(s)

For research use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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8.2. Exposure Controls

S.Z. Exposure Controls	
Appropriate Engineering Controls	 Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
Personal Protective Equipment	: Gloves. Protective clothing. Safety glasses.
Materials for Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Chemical safety goggles or safety glasses with side shields.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
Other Information	: When using, do not eat, drink or smoke.

9.1.	Information on Basic Physical and Chemical Properties
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-	
:	Liquid
:	No data available
:	Not applicable
:	No data available

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

None known.

10.6. Hazardous Decomposition Products

None known.

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SECTIO	N 11: TOXICOLOGICAL INFORM	ATION
11.1.	Information on Toxicological Eff	fects
Acute	Toxicity (Oral): Not classified	
Acute	Toxicity (Dermal): Not classified	
Acute	Toxicity (Inhalation): Not classified	
Skin Co	rosion/Irritation: Not classified	
Serious	Eye Damage/Irritation: Not classified	
Respir	atory or Skin Sensitization: Not classi	fied
	Cell Mutagenicity: Not classified	
Carcin	ogenicity: Not classified	
Repro	ductive Toxicity: Not classified	
Specifi	c Target Organ Toxicity (Single Expos	ure): Not classified
Specifi	c Target Organ Toxicity (Repeated Ex	posure): Not classified
Aspira	tion Hazard: Not classified	
Sympt	oms/Injuries After Inhalation: Prolon	ged exposure may cause irritation.
Sympt	oms/Injuries After Skin Contact: No i	rritation is expected.
	oms/Injuries After Eye Contact: May	
	oms/Injuries After Ingestion: Ingestic	•
	c Symptoms: None expected under no	
	N 12: ECOLOGICAL INFORMATI	ON
12.1.	Toxicity	
-		Not classified.
12.2.	Persistence and Degradability	
	DILUENT (7732-18-5)	
Persist	ence and Degradability	Not established.
12.3.	Bioaccumulative Potential	
	DILUENT (7732-18-5)	
Bioacc	umulative Potential	Not established.
12.4.	Mobility in Soil	
	DILUENT (7732-18-5)	
Ecolog	y - Soil	No data available.
12.5.	Other Adverse Effects	
	Adverse Effects	: None known.
	Information	: Avoid release to the environment.
SECTIO	N 13: DISPOSAL CONSIDERATIO	DNS
13.1.	Waste Treatment Methods	
		ed or incinerated, when in compliance with local regulations.
-	e Disposal Recommendations: Do no	
		e of contents/container in accordance with local, regional, national, and international
regulat		sinched methodials also used by incident of
		ninated materials should be incinerated.
	y - Waste Materials: Avoid release to	
	N 14: TRANSPORT INFORMATIC	
I he ship	oping description(s) stated herein were	prepared in accordance with certain assumptions at the time the SDS was authored,

and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Neither this product nor its chemical components appear on any US federal lists, or its chemical components are not required to be disclosed.

15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision	: 10/05/2022 Rev: 00
Other Information	: This document has been prepared in accordance with the SDS
	requirements of the OSHA Hazard Communication Standard 29 CFR

DISCLAIMER

1910.1200

The information, data and any recommendations contained herein ("Information") is based upon available information believed by ZeptoMetrix LLC to be reliable, however ZEPTOMETRIX neither warrants or assumes any liability for the accuracy or completeness of the Information. ZEPTOMETRIX MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED (INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) WITH REGARD TO THE MATERIALS OR INFORMATION DESCRIBED HEREIN, THAT THE MATERIALS WILL NOT POSE A SAFETY OR HEALTH RISK, OR THAT THE MATERIALS WILL ACCOMPLISH ANY PARTICULAR RESULT.

All materials and mixtures may present unknown hazards and should be handled and used with caution. When necessary or appropriate, independent opinion regarding the risk of handling or exposure should be obtained from trained professionals.

SDS US (GHS HazCom)



MDA STANDARD

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture Product Name: MDA STANDARD Product Code: 0720006 (Part of 0801192)

1.2. Intended Use of the Product

Use of the Substance/Mixture: For research use only – Component of the following kits: TBARS (Thiobarbituric Acid Reactive Substances) Assay Kit (160 tests)

1.3. Name, Address, and Telephone of the Responsible Party

Company

ZeptoMetrix LLC 878 Main Street Buffalo, NY 14202 1-800-274-5487

1.4. Emergency Telephone Number

Emergency Number

: INFOTRAC: (US) 1-800-535-5053 (Outside US) 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Not classified

2.2. Label Elements

GHS-US Labeling

No labeling applicable according to 29 CFR 1910.1200.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: the ingredients of this mixture are not required to be disclosed.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

MDA STANDARD

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4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: None expected under normal conditions of use.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Material may be biologically contaminated with pathogenic organisms. Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

For research use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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8.2. Exposure Controls

.2. Exposure Controls	
Appropriate Engineering Controls	 Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
Personal Protective Equipment	: Gloves. Protective clothing. Safety glasses.
Materials for Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Chemical safety goggles or safety glasses with side shields.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
Other Information	: When using, do not eat, drink or smoke.

9.1. Information on Basic Physical and Chemical Properties

	iear rieperties
Physical State	: Liquid
Appearance	: No data available
Odor	: No data available
Odor Threshold	: No data available
рН	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
9.2. Other Information	

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products

Hazardous decomposition products are not expected under normal conditions of storage.

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Safety Data Sheet According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SECTION 11: TOXICOLOGICAL INFORMATION 11.1. Information on Toxicological Effects Acute Toxicity (Oral): Not classified Acute Toxicity (Dermal): Not classified Acute Toxicity (Inhalation): Not classified Skin Corrosion/Irritation: Not classified Serious Eye Damage/Irritation: Not classified Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Carcinogenicity: Not classified Reproductive Toxicity: Not classified Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified Aspiration Hazard: Not classified Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects. Chronic Symptoms: None expected under normal conditions of use. **SECTION 12: ECOLOGICAL INFORMATION** 12.1. Toxicity **Ecology - General** : Not classified. 12.2. Persistence and Degradability **MDA STANDARD** Persistence and Degradability Not established. 12.3. **Bioaccumulative Potential MDA STANDARD Bioaccumulative Potential** Not expected to bioaccumulate. 12.4. **Mobility in Soil MDA STANDARD Ecology - Soil** Leaches if exposed to water. 12.5. **Other Adverse Effects Other Adverse Effects** : None known. Other Information Avoid release to the environment. SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste Treatment Methods Waste Treatment Methods: Can be landfilled or incinerated, when in compliance with local regulations. Sewage Disposal Recommendations: Do not dispose of waste into sewer. Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations. Additional Information: Biologically contaminated materials should be incinerated. Ecology - Waste Materials: Avoid release to the environment. SECTION 14: TRANSPORT INFORMATION The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. 14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

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SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Neither this product nor its chemical components appear on any US federal lists, or its chemical components are not required to be disclosed.

15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision	: 10/05/2022 Rev: 00
Other Information	: This document has been prepared in accordance with the SDS
	requirements of the OSHA Hazard Communication Standard 29 CFR
	1910.1200

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All materials and mixtures may present unknown hazards and should be handled and used with caution. When necessary or appropriate, independent opinion regarding the risk of handling or exposure should be obtained from trained professionals.

SDS US (GHS HazCom)