

## SAFETY DATA SHEET (SDS)

<b>Product Name:</b>	TBARS Assay Kit
<b>Catalog Number:</b>	0801192
<b>Product ID Number (CAS #)</b>	No Data Available
<b>Intended use of the product:</b>	For research or further manufacturing only.
<b>ZeptoMetrix LLC</b>	
878 Main Street	
Buffalo, New York 14202 USA	
Phone: (716) 882-0920 Fax: (716) 882-0959	
<b>Emergency telephone number:</b>	(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	
0720004	SDS Solution	
0720005	MDA Diluent	None
0720006	MDA Standard	None

### Transport Information:

<b>In accordance with IATA Regulations</b>	
UN number	UN3316
UN proper shipping name	Chemical Kit
Department of Transportation (DOT)	
Hazard Classes	9
Hazard labels (DOT)	Miscellaneous
Packing group (DOT)	II
Environmental hazards	No Data Available
Transport in bulk	No Data Available
Special precautions	No Data Available

## SAFETY DATA SHEET (SDS)

### 1. Product Identification:

<b>Product Name:</b>	TBARS Diluent 1
<b>Catalog Number:</b>	0720001
<b>Product ID Number (CAS #)</b>	No Data Available
<b>Intended use of the product:</b>	For research or further manufacturing only.
<b><u>ZeptoMetrix LLC</u></b>	
878 Main Street	
Buffalo, New York 14202 USA	
Phone: (716) 882-0920 Fax: (716) 882-0959	
<b>Emergency telephone number:</b>	(716) 882-0920 or 1 (800) 274-5487 (US Toll Free) Monday-Friday 8:15 am- 4:45 pm EST

### 2. Hazard(s) Identification:

<b>Classification of the substance or chemical:</b>	
<b>Classification:</b>	Skin Corrosive, Eye Damage
<b>Hazard Pictograms</b>	
<b>Signal word:</b>	Danger
<b>Hazard statements:</b>	Causes severe skin burns and eye damage
<b>Precautionary statement:</b>	Do not breathe mist, vapors, spray skin thoroughly after handling Wash Wear protective gloves, eye protection IF SWALLOWED: rinse mouth. Do NOT induce vomiting IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician Wash contaminated clothing before reuse
<b>Other hazards:</b>	None
<b>Unknown acute toxicity:</b>	No Data Available

### 3. Composition/Information on Ingredients:

<u>Component Name</u>	<u>CAS Number</u>	<u>Concentration</u>	<u>Classification</u>
Acetic Acid	64-19-7	22%	Flam. Liq., Skin Corr., Eye Dam.

### 4. First Aid/Emergency Measures:

<b>Description of first aid measures</b>	
First-aid measures general:	If you feel unwell, seek medical advice.
First-aid measures after Eye Contact:	Rinse cautiously with copious amounts of water for several minutes.
First-aid measures after Skin Contact:	Remove contaminated clothing and immediately rinse skin with copious amounts of water followed by washing with soap and copious amounts of water.
First-aid measures after Ingestion:	If the person is unconscious, seek emergency medical attention: never give anything by mouth to an unconscious person. If the person is conscious, wash mouth out with copious amounts of water and call a physician. Do not induce vomiting unless directed to do so by a physician.
First-aid measures after Inhalation:	If person is unconscious, seek emergency medical attention. If person is conscious, remove to fresh air and call a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	
Symptoms/injuries after Eye Contact:	Causes severe eye damage. Seek medical assistance if persist.
Symptoms/injuries after Skin Contact:	Causes severe skin burns. Seek medical assistance if persist.
Symptoms/injuries after Ingestion:	Seek medical assistance if persist.
Symptoms/injuries after Inhalation:	Seek medical assistance if persist.
<b>Indication of any immediate medical attention and special treatment needed :</b> No special measures required	

## 5. Fire and Explosion Measures:

### Extinguishing Media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
 Unsuitable extinguishing media: Do not use heavy water stream.

### Special hazards arising from the substance or mixture

Fire hazard: No Data Available  
 Explosion hazard: No Data Available  
 Reactivity: Thermal decomposition generates: Corrosive vapors.

### Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting a fire. Avoid (reject) fire-fighting water to enter environment.  
 Protection during firefighting: Firefighters should wear protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. Accidental Release Measures:

### Personal precautions, protective equipment and emergency procedures

General measures: Use appropriate personal protective equipment (PPE) and appropriate laboratory procedures.

### For non-emergency personnel

Protective equipment: Use appropriate personal protective equipment (PPE).  
 Emergency procedures: Use appropriate emergency laboratory procedures.

### For emergency responders

Protective equipment: Use appropriate personal protective equipment (PPE).  
 Emergency procedures: Use appropriate emergency procedures.

### Methods and material for containment and cleaning up

For containment: Contain material in accordance to State and Federal regulations.  
 Methods for cleaning up: Follow and dispose of material in accordance to State and Federal waste disposal regulations.

## 7. Handling and Storage:

### Precautions for safe handling

Precautions for safe handling: Handle in accordance with good laboratory practices and safety procedures.

### Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry and cool place. Keep container closed when not in use.  
 Incompatible products: Strong oxidizers. Metals. Strong bases.  
 Incompatible materials: Sources of ignition. Direct sunlight.  
 Storage: Recommended storage temperature 2-8 Degrees Celsius.

## 8. Exposure Controls and Personal Protection:

### Exposure Controls

Appropriate engineering controls: Handle in accordance with good laboratory practices and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Use laboratory coat, protective gloves, safety glasses and suitable protective clothing.

Pictograms:



Eye/Face protection: Wear in accordance with good laboratory practices and safety procedures.  
 Skin and body protection: Wear in accordance with good laboratory practices and safety procedures.  
 Respiratory protection: Wear in accordance with good laboratory practices and safety procedures.  
 Hand protection: Wear in accordance with good laboratory practices and safety procedures.  
 Mechanical protection: Wear in accordance with good laboratory practices and safety procedures.  
 Special work practices: Wear in accordance with good laboratory practices and safety procedures.

## 9. Physical and Chemical Properties:

### Information on basic physical and chemical properties

Physical State:	Liquid
Appearance/color:	Clear
Odor:	Vinegar odor
Odor threshold:	No Data Available
pH:	~2
Melting point/freezing point:	No Data Available
Boiling point:	No Data Available
Flash point:	No Data Available
Evaporation rate:	No Data Available
Flammability:	No Data Available
Upper/lower flammability or explosive limits:	No Data Available
Vapor pressure:	No Data Available
Vapor density:	No Data Available
Relative density:	No Data Available
Solubility(ies):	Soluble in water.
Partition coefficient:	No Data Available
Auto-ignition temperature:	No Data Available
Decomposition temperature:	No Data Available
Viscosity:	No Data Available
<b>Other information:</b>	No Data Available

## 10. Stability and Reactivity:

Reactivity:	Thermal decomposition generates: Corrosive vapors.
Chemical stability:	This product is stable under normal conditions.
Possibility of hazardous reactions:	Reacts violently with (some) bases: release of heat.
Conditions to avoid:	Direct sunlight. Extremely high or low temperatures.
Incompatible materials:	Strong oxidizers. Metals. Strong bases.
Hazardous decomposition products:	Carbon monoxide Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

## 11. Toxicological Information:

### Information on toxicological effects

Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Eye damage/irritation:	Causes serious eye damage.
Respiratory damage/irritation:	No Data Available
Ingestion damage/irritation:	No Data Available
Specific target organ toxicity (single exposure):	No Data Available
Specific target organ toxicity (repeated exposure):	No Data Available
Numerical measure of toxicity:	No Data Available
Symptoms/injuries after skin contact:	No Data Available
Symptoms/injuries after eye contact:	No Data Available
Symptoms/injuries after inhalation:	No Data Available
Symptoms/injuries after ingestion:	Causes serious eye damage.

## 12. Ecological Information:

Ecotoxicity:	No Data Available
Persistence and degradability:	No Data Available
Bioaccumulative potential:	No Data Available
Mobility in soil:	No Data Available
Other adverse effects:	No Data Available

## 13. Disposal Information:

Waste disposal recommendations:	Dispose of material in accordance to local, State and Federal waste disposal regulations.
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## 14. Transport Information:

In accordance with IATA Regulations	
UN number	UN2790
UN proper shipping name	Acetic Acid Solution
Department of Transportation (DOT)	
Hazard Classes	8
Hazard labels (DOT)	Corrosive
Packing group (DOT)	III
Environmental hazards	No Data Available
Transport in bulk	No Data Available
Special precautions	No Data Available

## 15. Regulatory Information:

SARA 311/312: Hazard categories for SARA Section 311/312 Reporting	Acute Health Hazard
Canadian WHMIS Classification	Class E – Corrosive Metal
EU Classification (90/492/EE)	No Data Available
EU Risk and Safety Phrases	No Data Available
California Proposition 65: This product contains the following substances known to the State of California to cause Reproductive Toxicity (birth defects).	None

## 16. Other Information:

Preparation Date	2022/03/14
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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..

## SAFETY DATA SHEET (SDS)

### 1. Product Identification:

<b>Product Name:</b>	TBARS Diluent 2
<b>Catalog Number:</b>	0720002
<b>Product ID Number (CAS #)</b>	No Data Available
<b>Intended use of the product:</b>	For research or further manufacturing only.
<b>ZeptoMetrix LLC</b>	
878 Main Street	
Buffalo, New York 14202 USA	
Phone: (716) 882-0920 Fax: (716) 882-0959	
<b>Emergency telephone number:</b>	(716) 882-0920 or 1 (800) 274-5487 (US Toll Free) Monday-Friday 8:15 am- 4:45 pm EST

### 2. Hazard(s) Identification:

<b>Classification of the substance or chemical:</b>	
<b>Classification:</b>	Skin irritation, Serious eye damage
<b>Hazard Pictograms</b>	
<b>Signal word:</b>	Danger
<b>Hazard statements:</b>	Causes skin irritation. Causes serious eye damage. Wash skin thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.
<b>Precautionary statement:</b>	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.
<b>Other hazards:</b>	No Data Available
<b>Unknown acute toxicity:</b>	No Data Available

### 3. Composition/Information on Ingredients:

<u>Component Name</u>	<u>CAS Number</u>	<u>Concentration</u>	<u>Classification</u>
Sodium Hydroxide	1310-73-2	2.8%	Metal Corrosive; Skin Corrosive; Eye Damage

### 4. First Aid/Emergency Measures:

<b>Description of first aid measures</b>	
First-aid measures general:	If you feel unwell, seek medical advice.
First-aid measures after Eye Contact:	Rinse cautiously with copious amounts of water for several minutes.
First-aid measures after Skin Contact:	Remove contaminated clothing and immediately rinse skin with copious amounts of water followed by washing with soap and copious amounts of water.
First-aid measures after Ingestion:	If the person is unconscious, seek emergency medical attention: never give anything by mouth to an unconscious person. If the person is conscious, wash mouth out with copious amounts of water and call a physician. Do not induce vomiting unless directed to do so by a physician.
First-aid measures after Inhalation:	If person is unconscious, seek emergency medical attention. If person is conscious, remove to fresh air and call a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	
Symptoms/injuries after Eye Contact:	Seek medical assistance if persist.
Symptoms/injuries after Skin Contact:	Seek medical assistance if persist.
Symptoms/injuries after Ingestion:	Seek medical assistance if persist.
Symptoms/injuries after Inhalation:	Seek medical assistance if persist.
<b>Indication of any immediate medical attention and special treatment needed</b> No Data Available	

## 5. Fire and Explosion Measures:

<b>Extinguishing Media</b>	
Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding area.
Unsuitable extinguishing media:	Use an extinguishing agent suitable for the surrounding area.
<b>Special hazards arising from the substance or mixture</b>	
Fire hazard:	No Data Available
Explosion hazard:	No Data Available
Reactivity:	No Data Available
<b>Advice for firefighters</b>	
Firefighting instructions:	Exercise caution when fighting a fire.
Protection during firefighting:	Firefighters should wear protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. Accidental Release Measures:

<b>Personal precautions, protective equipment and emergency procedures</b>	
General measures:	Use appropriate personal protective equipment (PPE) and appropriate laboratory procedures.
<b>For non-emergency personnel</b>	
Protective equipment:	Use appropriate personal protective equipment (PPE).
Emergency procedures:	Use appropriate emergency laboratory procedures.
<b>For emergency responders</b>	
Protective equipment:	Use appropriate personal protective equipment (PPE).
Emergency procedures:	Use appropriate emergency procedures.
<b>Methods and material for containment and cleaning up</b>	
For containment:	Contain material in accordance to State and Federal regulations.
Methods for cleaning up:	Follow and dispose of material in accordance to State and Federal waste disposal regulations.

## 7. Handling and Storage:

<b>Precautions for safe handling</b>	
Precautions for safe handling:	Handle in accordance with good laboratory practices and safety procedures. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
<b>Conditions for safe storage, including any incompatibilities</b>	
Storage conditions:	Store in a dry and cool place. Keep container closed when not in use.
Incompatible products:	No Data Available
Incompatible materials:	No Data Available
Storage:	Recommended storage temperature 2-8 Degrees Celsius.

## 8. Exposure Controls and Personal Protection:

<b>Exposure Controls</b>	
Appropriate engineering controls:	Handle in accordance with good laboratory practices and safety procedures.
Personal Protective Equipment:	Use laboratory coat, protective gloves, safety glasses and suitable protective clothing.
Pictograms:	
Eye/Face protection:	Wear in accordance with good laboratory practices and safety procedures.
Skin and body protection:	Wear in accordance with good laboratory practices and safety procedures.
Respiratory protection:	Wear in accordance with good laboratory practices and safety procedures.
Hand protection:	Wear in accordance with good laboratory practices and safety procedures.
Mechanical protection:	Wear in accordance with good laboratory practices and safety procedures.
Special work practices:	Wear in accordance with good laboratory practices and safety procedures.

## 9. Physical and Chemical Properties:

### Information on basic physical and chemical properties

Physical State:	Liquid
Appearance/color:	Clear
Odor:	No Data Available
Odor threshold:	No Data Available
pH:	No Data Available
Melting point/freezing point:	No Data Available
Boiling point:	No Data Available
Flash point:	No Data Available
Evaporation rate:	No Data Available
Flammability:	No Data Available
Upper/lower flammability or explosive limits:	No Data Available
Vapor pressure:	No Data Available
Vapor density:	No Data Available
Relative density:	No Data Available
Solubility(ies):	No Data Available
Partition coefficient:	No Data Available
Auto-ignition temperature:	No Data Available
Decomposition temperature:	No Data Available
Viscosity:	No Data Available
<b>Other information:</b>	No Data Available

## 10. Stability and Reactivity:

Reactivity:	No Data Available
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No Data Available
Conditions to avoid:	No Data Available
Incompatible materials:	Strong oxidizing agents, Strong acids, Organic materials
Hazardous decomposition products:	Sodium oxides

## 11. Toxicological Information:

### Information on toxicological effects

Skin corrosion/irritation:	No Data Available
Eye damage/irritation:	No Data Available
Respiratory damage/irritation:	No Data Available
Ingestion damage/irritation:	No Data Available
Specific target organ toxicity (single exposure):	No Data Available
Specific target organ toxicity (repeated exposure):	No Data Available
Numerical measure of toxicity:	No Data Available
Symptoms/injuries after skin contact:	No Data Available
Symptoms/injuries after eye contact:	No Data Available
Symptoms/injuries after inhalation:	No Data Available
Symptoms/injuries after ingestion:	No Data Available

## 12. Ecological Information:

Ecotoxicity:	No Data Available
Persistence and degradability:	No Data Available
Bioaccumulative potential:	No Data Available
Mobility in soil:	No Data Available
Other adverse effects:	No Data Available

## 13. Disposal Information:

Waste disposal recommendations:	Dispose of material in accordance to local, State and Federal waste disposal regulations.
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## 14. Transport Information:

In accordance with IATA Regulations	
UN number	UN1824
UN proper shipping name	Sodium hydroxide solution
Department of Transportation (DOT)	
Hazard Classes	8
Hazard labels (DOT)	Corrosive
Packing group (DOT)	II
Environmental hazards	No Data Available
Transport in bulk	No Data Available
Special precautions	No Data Available

## 15. Regulatory Information:

SARA 311/312: Hazard categories for SARA Section 311/312 Reporting	No Data Available
Canadian WHMIS Classification	No Data Available
EU Classification (90/492/EE)	No Data Available
EU Risk and Safety Phrases	No Data Available
California Proposition 65: This product contains the following substances known to the State of California to cause Reproductive Toxicity (birth defects).	No Data Available

## 16. Other Information:

Preparation Date	2022/03/14
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### **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.

## SAFETY DATA SHEET (SDS)

### 1. Product Identification:

<b>Product Name:</b>	Thiobarbituric Acid
<b>Catalog Number:</b>	0720003
<b>Product ID Number (CAS #)</b>	No Data Available
<b>Intended use of the product:</b>	For research or further manufacturing only.
<b>ZeptoMetrix LLC</b>	
878 Main Street	
Buffalo, New York 14202 USA	
Phone: (716) 882-0920 Fax: (716) 882-0959	
<b>Emergency telephone number:</b>	(716) 882-0920 or 1 (800) 274-5487 (US Toll Free) Monday-Friday 8:15 am- 4:45 pm EST

### 2. Hazard(s) Identification:

<b>Classification of the substance or chemical:</b>	
<b>Classification:</b>	Skin irritation, Serious eye damage
<b>Hazard Pictograms</b>	
<b>Signal word:</b>	Warning
<b>Hazard statements:</b>	Causes skin irritation; Causes serious eye damage; May cause respiratory irritation..
<b>Precautionary statement:</b>	Wash skin thoroughly after handling. Wear eye protection/face protection. Wear protective gloves. Take off contaminated clothing and wash before reuse. Avoid breathing (Dust/Fume/Gas/Mist/Vapors/Spray). IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, If present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/ attention.
<b>Other hazards:</b>	No Data Available
<b>Unknown acute toxicity:</b>	No Data Available

### 3. Composition/Information on Ingredients:

<u>Component Name</u>	<u>CAS Number</u>	<u>Concentration</u>	<u>Classification</u>
Thiobarbituric Acid (4,6-Dihydroxy-2-mercaptopyrimidine	504-17-6	100%	Skin irritation; Eye Damage

### 4. First Aid/Emergency Measures:

<b>Description of first aid measures</b>	
First-aid measures general:	If you feel unwell, seek medical advice.
First-aid measures after Eye Contact:	Rinse cautiously with copious amounts of water for several minutes.
First-aid measures after Skin Contact:	Remove contaminated clothing and immediately rinse skin with copious amounts of water followed by washing with soap and copious amounts of water.
First-aid measures after Ingestion:	If the person is unconscious, seek emergency medical attention: never give anything by mouth to an unconscious person. If the person is conscious, wash mouth out with copious amounts of water and call a physician. Do not induce vomiting unless directed to do so by a physician.
First-aid measures after Inhalation:	If person is unconscious, seek emergency medical attention. If person is conscious, remove to fresh air and call a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	
Symptoms/injuries after Eye Contact:	Seek medical assistance if persist.
Symptoms/injuries after Skin Contact:	Seek medical assistance if persist.
Symptoms/injuries after Ingestion:	Seek medical assistance if persist.
Symptoms/injuries after Inhalation:	Seek medical assistance if persist.
<b>Indication of any immediate medical attention and special treatment needed</b> No Data Available	

## 5. Fire and Explosion Measures:

### Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding area.  
 Unsuitable extinguishing media: Use an extinguishing agent suitable for the surrounding area.

### Special hazards arising from the substance or mixture

Fire hazard: No Data Available  
 Explosion hazard: No Data Available  
 Reactivity: No Data Available

### Advice for firefighters

Firefighting instructions: Exercise caution when fighting a fire.  
 Protection during firefighting: Firefighters should wear protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. Accidental Release Measures:

### Personal precautions, protective equipment and emergency procedures

General measures: Use appropriate personal protective equipment (PPE) and appropriate laboratory procedures.

### For non-emergency personnel

Protective equipment: Use appropriate personal protective equipment (PPE).  
 Emergency procedures: Use appropriate emergency laboratory procedures.

### For emergency responders

Protective equipment: Use appropriate personal protective equipment (PPE).  
 Emergency procedures: Use appropriate emergency procedures.

### Methods and material for containment and cleaning up

For containment: Contain material in accordance to State and Federal regulations.  
 Methods for cleaning up: Follow and dispose of material in accordance to State and Federal waste disposal regulations.

## 7. Handling and Storage:

### Precautions for safe handling

Precautions for safe handling: Handle in accordance with good laboratory practices and safety procedures. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

### Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry and cool place. Keep container closed when not in use.  
 Incompatible products: No Data Available  
 Incompatible materials: No Data Available  
 Storage: Recommended storage temperature 2-8 Degrees Celsius.

## 8. Exposure Controls and Personal Protection:

### Exposure Controls

Appropriate engineering controls: Handle in accordance with good laboratory practices and safety procedures.  
 Personal Protective Equipment: Use laboratory coat, protective gloves, safety glasses and suitable protective clothing.

Pictograms:



Eye/Face protection: Wear in accordance with good laboratory practices and safety procedures.  
 Skin and body protection: Wear in accordance with good laboratory practices and safety procedures.  
 Respiratory protection: Wear in accordance with good laboratory practices and safety procedures.  
 Hand protection: Wear in accordance with good laboratory practices and safety procedures.  
 Mechanical protection: Wear in accordance with good laboratory practices and safety procedures.  
 Special work practices: Wear in accordance with good laboratory practices and safety procedures.

## 9. Physical and Chemical Properties:

### Information on basic physical and chemical properties

Physical State:	Powder
Appearance/color:	Light yellow
Odor:	No Data Available
Odor threshold:	No Data Available
pH:	No Data Available
Melting point/freezing point:	Melting point/range: 245 °C (473 °F)
Boiling point:	No Data Available
Flash point:	No Data Available
Evaporation rate:	No Data Available
Flammability:	No Data Available
Upper/lower flammability or explosive limits:	No Data Available
Vapor pressure:	No Data Available
Vapor density:	No Data Available
Relative density:	No Data Available
Solubility(ies):	No Data Available
Partition coefficient:	No Data Available
Auto-ignition temperature:	No Data Available
Decomposition temperature:	No Data Available
Viscosity:	No Data Available
<b>Other information:</b>	No Data Available

## 10. Stability and Reactivity:

Reactivity:	No Data Available
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No Data Available
Conditions to avoid:	No Data Available
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides, Nitrogen oxides, Sulphur oxides

## 11. Toxicological Information:

### Information on toxicological effects

Skin corrosion/irritation:	No Data Available
Eye damage/irritation:	No Data Available
Respiratory damage/irritation:	No Data Available
Ingestion damage/irritation:	No Data Available
Specific target organ toxicity (single exposure):	No Data Available
Specific target organ toxicity (repeated exposure):	No Data Available
Numerical measure of toxicity:	No Data Available
Symptoms/injuries after skin contact:	No Data Available
Symptoms/injuries after eye contact:	No Data Available
Symptoms/injuries after inhalation:	No Data Available
Symptoms/injuries after ingestion:	No Data Available

## 12. Ecological Information:

Ecotoxicity:	No Data Available
Persistence and degradability:	No Data Available
Bioaccumulative potential:	No Data Available
Mobility in soil:	No Data Available
Other adverse effects:	No Data Available

## 13. Disposal Information:

Waste disposal recommendations:	Dispose of material in accordance to local, State and Federal waste disposal regulations.
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## 14. Transport Information:

In accordance with IATA Regulations	
UN number	UN3335
UN proper shipping name	Aviation regulated solid, n.o.s (2-Thiobarbituric acid)
Department of Transportation (DOT)	
Hazard Classes	9
Hazard labels (DOT)	Miscellaneous
Packing group (DOT)	III
Environmental hazards	No Data Available
Transport in bulk	No Data Available
Special precautions	No Data Available

## 15. Regulatory Information:

SARA 311/312: Hazard categories for SARA	No Data Available
Section 311/312 Reporting	
Canadian WHMIS Classification	No Data Available
EU Classification (90/492/EE)	No Data Available
EU Risk and Safety Phrases	No Data Available
California Proposition 65: This product contains the following substances known to the State of California to cause Reproductive Toxicity (birth defects).	No Data Available

## 16. Other Information:

Preparation Date	2022/03/14
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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.

## SAFETY DATA SHEET (SDS)

### 1. Product Identification:

<b>Product Name:</b>	SDS Solution
<b>Catalog Number:</b>	0720004
<b>Product ID Number (CAS #)</b>	No Data Available
<b>Intended use of the product:</b>	For research or further manufacturing only.
<b>ZeptoMetrix LLC</b>	
878 Main Street	
Buffalo, New York 14202 USA	
Phone: (716) 882-0920 Fax: (716) 882-0959	
<b>Emergency telephone number:</b>	(716) 882-0920 or 1 (800) 274-5487 (US Toll Free) Monday-Friday 8:15 am- 4:45 pm EST

### 2. Hazard(s) Identification:

<b>Classification of the substance or chemical:</b>	
<b>Classification:</b>	Skin irritation, Eye irritation, Aquatic chronic
<b>Hazard Pictograms</b>	
<b>Signal word:</b>	Warning
<b>Hazard statements:</b>	Causes skin irritation; Causes serious eye irritation; Harmful to aquatic life with long lasting effects.
<b>Precautionary statement:</b>	Wash skin thoroughly after handling. Wear eye protection/face protection. Wear protective gloves. Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Avoid release to the environment Dispose of contents/ container to an approved waste disposal plant.
<b>Other hazards:</b>	No Data Available
<b>Unknown acute toxicity:</b>	No Data Available

### 3. Composition/Information on Ingredients:

<b>Component Name</b>	<b>CAS Number</b>	<b>Concentration</b>	<b>Classification</b>
sodium dodecyl sulfate (4,6-Dihydroxy-2-mercaptopyrimidine	151-21-3	8.1%	Flam. Sol.;Acute Tox.;Skin Irrit.; Eye Dam.;STOT SE; Aquatic Acute; Aquatic Chronic

### 4. First Aid/Emergency Measures:

<b>Description of first aid measures</b>	
First-aid measures general:	If you feel unwell, seek medical advice.
First-aid measures after Eye Contact:	Rinse cautiously with copious amounts of water for several minutes.
First-aid measures after Skin Contact:	Remove contaminated clothing and immediately rinse skin with copious amounts of water followed by washing with soap and copious amounts of water.
First-aid measures after Ingestion:	If the person is unconscious, seek emergency medical attention: never give anything by mouth to an unconscious person. If the person is conscious, wash mouth out with copious amounts of water and call a physician. Do not induce vomiting unless directed to do so by a physician.
First-aid measures after Inhalation:	If person is unconscious, seek emergency medical attention. If person is conscious, remove to fresh air and call a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	
Symptoms/injuries after Eye Contact:	Seek medical assistance if persist.
Symptoms/injuries after Skin Contact:	Seek medical assistance if persist.
Symptoms/injuries after Ingestion:	Seek medical assistance if persist.
Symptoms/injuries after Inhalation:	Seek medical assistance if persist.
<b>Indication of any immediate medical attention and special treatment needed</b> No Data Available	

## 5. Fire and Explosion Measures:

### Extinguishing Media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
 Unsuitable extinguishing media: Use an extinguishing agent suitable for the surrounding area.

### Special hazards arising from the substance or mixture

Fire hazard: No Data Available  
 Explosion hazard: No Data Available  
 Reactivity: No Data Available

### Advice for firefighters

Firefighting instructions: Exercise caution when fighting a fire.  
 Protection during firefighting: Firefighters should wear protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. Accidental Release Measures:

### Personal precautions, protective equipment and emergency procedures

General measures: Use appropriate personal protective equipment (PPE) and appropriate laboratory procedures.

### For non-emergency personnel

Protective equipment: Use appropriate personal protective equipment (PPE).  
 Emergency procedures: Use appropriate emergency laboratory procedures.

### For emergency responders

Protective equipment: Use appropriate personal protective equipment (PPE).  
 Emergency procedures: Use appropriate emergency procedures.

### Methods and material for containment and cleaning up

For containment: Contain material in accordance to State and Federal regulations.  
 Methods for cleaning up: Follow and dispose of material in accordance to State and Federal waste disposal regulations.

## 7. Handling and Storage:

### Precautions for safe handling

Precautions for safe handling: Handle in accordance with good laboratory practices and safety procedures. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

### Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry and cool place. Keep container closed when not in use.  
 Incompatible products: No Data Available  
 Incompatible materials: No Data Available  
 Storage: Recommended storage temperature 2-8 Degrees Celsius.

## 8. Exposure Controls and Personal Protection:

### Exposure Controls

Appropriate engineering controls: Handle in accordance with good laboratory practices and safety procedures.  
 Personal Protective Equipment: Use laboratory coat, protective gloves, safety glasses and suitable protective clothing.

Pictograms:



Eye/Face protection: Wear in accordance with good laboratory practices and safety procedures.  
 Skin and body protection: Wear in accordance with good laboratory practices and safety procedures.  
 Respiratory protection: Wear in accordance with good laboratory practices and safety procedures.  
 Hand protection: Wear in accordance with good laboratory practices and safety procedures.  
 Mechanical protection: Wear in accordance with good laboratory practices and safety procedures.  
 Special work practices: Wear in accordance with good laboratory practices and safety procedures.

## 9. Physical and Chemical Properties:

### Information on basic physical and chemical properties

Physical State:	Liquid, solid when cold.
Appearance/color:	Clear solution or white solid when cold
Odor:	No Data Available
Odor threshold:	No Data Available
pH:	No Data Available
Melting point/freezing point:	No Data Available
Boiling point:	No Data Available
Flash point:	No Data Available
Evaporation rate:	No Data Available
Flammability:	No Data Available
Upper/lower flammability or explosive limits:	No Data Available
Vapor pressure:	No Data Available
Vapor density:	No Data Available
Relative density:	No Data Available
Solubility(ies):	No Data Available
Partition coefficient:	No Data Available
Auto-ignition temperature:	No Data Available
Decomposition temperature:	No Data Available
Viscosity:	No Data Available
<b>Other information:</b>	No Data Available

## 10. Stability and Reactivity:

Reactivity:	No Data Available
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No Data Available
Conditions to avoid:	No Data Available
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides, Sodium oxides, Sulphur oxides

## 11. Toxicological Information:

### Information on toxicological effects

Skin corrosion/irritation:	No Data Available
Eye damage/irritation:	No Data Available
Respiratory damage/irritation:	No Data Available
Ingestion damage/irritation:	No Data Available
Specific target organ toxicity (single exposure):	No Data Available
Specific target organ toxicity (repeated exposure):	No Data Available
Numerical measure of toxicity:	No Data Available
Symptoms/injuries after skin contact:	No Data Available
Symptoms/injuries after eye contact:	No Data Available
Symptoms/injuries after inhalation:	No Data Available
Symptoms/injuries after ingestion:	No Data Available

## 12. Ecological Information:

Ecotoxicity:	No Data Available
Persistence and degradability:	No Data Available
Bioaccumulative potential:	No Data Available
Mobility in soil:	No Data Available
Other adverse effects:	Harmful to aquatic life

## 13. Disposal Information:

Waste disposal recommendations:	Dispose of material in accordance to local, State and Federal waste disposal regulations.
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## 14. Transport Information:

<b>In accordance with IATA Regulations</b>	
UN number	Not dangerous goods
UN proper shipping name	No Data Available
Department of Transportation (DOT)	
Hazard Classes	No Data Available
Hazard labels (DOT)	No Data Available
Packing group (DOT)	No Data Available
Environmental hazards	No Data Available
Transport in bulk	No Data Available
Special precautions	No Data Available

## 15. Regulatory Information:

SARA 311/312: Hazard categories for SARA Section 311/312 Reporting	No Data Available
Canadian WHMIS Classification	No Data Available
EU Classification (90/492/EE)	No Data Available
EU Risk and Safety Phrases	No Data Available
California Proposition 65: This product contains the following substances known to the State of California to cause Reproductive Toxicity (birth defects).	No Data Available

## 16. Other Information:

Preparation Date	2022/03/14
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