



## Salivary 17 $\alpha$ -Hydroxyprogesterone Enzyme Immunoassay Kit Contents for Importers Cat#: 1-2602 (Single), 1-2602-5 (5-Pack)

<u>Kit Component Descriptions:</u>	<u>Quantity/Single Kit (x5 in 5-Pack)</u>
1. <b>17-OH Progesterone Diluent:</b> A phosphate buffered solution containing a pH indicator and a non-mercury preservative.	50 mL/Bottle
2. <b>Wash Buffer:</b> A 10X phosphate buffered solution containing detergents and a non-mercury preservative.	100 mL/Bottle
3. <b>TMB Substrate:</b> Tetramethylbenzidine (TMB): A non-toxic ready-to-use solution.	25 mL/Bottle
4. <b>Stop Solution:</b> A 2-molar solution of sulfuric acid	12.5 mL/Bottle
5. a. <b>17-OH Progesterone Standard:</b> 17-OH Progesterone, at a concentration of 500 pg/mL, in a synthetic saliva matrix with a non-mercury preservative. (value in pmol/L is 1513.04).	1 mL/Vial
b. <b>17-OH Progesterone Controls:</b> <b>High</b> – 17-OH Progesterone, at a concentration of 300 pg/mL <b>Low</b> – 17-OH Progesterone, at a concentration of 15 pg/mL Both concentrations of 17-OH Progesterone are in a synthetic saliva matrix containing a non-mercury preservative.	500 $\mu$ L/Vial 500 $\mu$ L/Vial
6. <b>17-OH Progesterone Enzyme Conjugate:</b> A solution of 17-OH Progesterone labeled with horseradish peroxidase.	40 $\mu$ L/Vial
7. <b>Anti-17-OH Progesterone Coated Microtitre Plate:</b> A ready-to-use 96 well microtitre plate pre-coated with <i>bound, (not free)</i> antibodies (not sheep antibodies) in a resealable foil pouch.	1 plate



# Material Safety Data Sheet

Date Updated: 5-14-08

## Section 1 – Product and Company Information

**Product Name** 17  $\alpha$ -HYDROXYPROGESTERONE ENZYME CONJUGATE

**Product Numbers** Component of Kit(s)#: 1-2602, 1-2602-5/1-2612, 1-2612-5

**Company** Salimetrics, LLC

**Street Address** 101 Innovation Boulevard  
Suite 302

**City, State, Zip, Country** State College, PA 16803 USA

**Technical Phone** 814-234-7748

**Fax** 814-234-1608

**Emergency Phone:** 814-234-7748  
(8am to 5:30pm, EST; Mon. – Fri.)

## Section 2 – Composition/Information on Ingredients

<u>Component(s)</u>	<u>CAS #</u>	<u>*APPROX. %</u>	<u>SARA 313</u>
Water	7732-18-5	90-99 %	N/A
Sodium Chloride	7647-14-5	≤ 1 %	
Other components, non-carcinogenic		≤ 0.5 %	
17 $\alpha$ -Hydroxyprogesterone Horseradish Peroxidase		< 0.1 %	

\*Approx. % as wt/vol

**Formula** Solution

## Section 3 – Hazards Identification

### NFPA Rating

Health: 0 Flammability: 0 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 – First Aid Measures

### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. If breathing has stopped, give artificial respiration.

### Dermal Exposure

In case of contact, immediately wash skin with soap and flush thoroughly with large amounts of water.

**Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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**Section 5 – Fire Fighting Measures**

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**Extinguishing Media****Suitable**

Use any suitable for adjacent material.

**Firefighting****Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**

None Indicated.

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**Section 6 – Accidental Release Measures**

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**Procedure(s) of Personal Precaution(s)**

Wear self-contained breathing apparatus, and heavy rubber gloves. (Refer to Section 8.)

**Methods for Cleaning Up**

Evacuate area. Absorb spill up, containerize and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. (See Section 13 for details on disposal.)

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**Section 7 – Handling and Storage**

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**Handling****User Exposure**

Avoid inhalation. Avoid contact with eyes, skin, and clothing.

**Storage****Suitable**

Keep tightly closed. Store at 2-8<sup>0</sup>C (35.6-46.4<sup>0</sup>F).

**Special Requirements**

Refrigerate.

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**Section 8 – Exposure Controls/PPE**

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**Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment****Respiratory**

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

**Hand**

Compatible chemical-resistant gloves.

**Eye**

Chemical safety goggles.

**General Hygiene Measures**

Wash thoroughly after handling. Do not take internally.

**Exposure Guidelines**

No OSHA or ACHIH limits have been established.

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## Section 9 – Physical/Chemical Properties

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### Appearance

<b>Physical State</b>	Liquid		
<b>Color</b>	Clear		
<b>Molecular Weight</b>	N/A	<b>MP/MP Range</b>	N/A
<b>BP/BP Range</b>	N/A	<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A	<b>Volatile %</b>	N/A
<b>SG/Density</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Flash Point °F</b>	Non-Combustible		
<b>Solubility in Water</b>	N/A		

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## Section 10 – Stability and Reactivity

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### Stability

**Stable**

Stable.

**Materials to Avoid**

Strong oxidizing agents and strong bases.

**Conditions to Avoid**

None indicated.

**Hazardous Decomposition Products****Hazardous Decomposition Products**

None indicated.

**Hazardous Polymerization****Hazardous Polymerization**

Will not occur.

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## Section 11 – Toxicological Information

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### Route of Exposure

**Skin Contact**

May cause skin irritation.

**Skin Absorption**

May be harmful if absorbed through skin.

**Eye Contact**

May cause eye irritation.

**Inhalation**

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

**RTECS Number:** N/A

To the best of our knowledge, the chemical, physical and toxicological properties of these products have not been thoroughly investigated. Use Good Laboratory Practices when handling all of our products.

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## Section 12 – Ecological Information

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No data available.

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## Section 13 – Disposal Considerations

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### Appropriate Method of Disposal of Substance or Preparation

Consultation with a licensed professional waste disposal service should be accomplished. Observe all federal, state, and local environmental regulations.

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## Section 14 – Transport Information

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### DOT

**Proper Shipping Name:** None

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

### IATA

**Non-Hazardous for Air Transport:** Non-hazardous for air transport.

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## Section 15 – Regulatory Information

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### United States Regulatory Information

**Sara Listed:** No

**TSCA Statement:** This product is a “Mixture”.

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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## Section 16 – Other Information

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### Disclaimer & Warranty

The information and recommendations contained on this data sheet are based on sources believed to be accurate and reliable as of the date thereof, but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. It is the user’s responsibility to determine the product’s safe use and to comply with all applicable Local, State and Federal laws for the product’s proper disposal. We reserve the right to rewrite the Material Safety Data Sheets periodically as new information becomes available.

*N/A = not available*



# Material Safety Data Sheet

Date Updated: 5-14-08

## Section 1 – Product and Company Information

**Product Name(s)** 17  $\alpha$ -HYDROXYPROGESTERONE STANDARD (500 pg/mL)  
17  $\alpha$ -HYDROXYPROGESTERONE HIGH CONTROL (300 pg/mL)  
17  $\alpha$ -HYDROXYPROGESTERONE LOW CONTROL (15 pg/mL)

**Product Numbers** Component of Kit #: 1-2602, 1-2602-5/1-2612, 1-2612-5

**Company** Salimetrics, LLC  
**Street Address** 101 Innovation Boulevard  
Suite 302  
**City, State, Zip, Country** State College, PA 16803 USA  
**Technical Phone** 814-234-7748  
**Fax** 814-234-1608

**Emergency Phone:** 814-234-7748  
(8am to 5:30pm, EST; Mon. – Fri.)

## Section 2 – Composition/Information on Ingredients

<u>Component(s)</u>	<u>CAS #</u>	<u>*APPROX.%</u>	<u>SARA 313</u>
Water	7732-18-5	90-99 %	N/A
Sodium Chloride	7647-14-5	≤ 1 %	
Other components, non-carcinogenic		≤ 0.5 %	
4-Pregnen-17-OL-3,20-dione	68-96-2	< 0.1 %	

\*Approx. % as wt/vol

**Formula** Solution

## Section 3 – Hazards Identification

### NFPA Rating

Health: 0 Flammability: 0 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 – First Aid Measures

### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. If breathing has stopped, give artificial respiration.

### Dermal Exposure

In case of contact, immediately flush thoroughly with large amounts of water.

17  $\alpha$ -Hydroxyprogesterone Standard, High & Low Control

**Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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**Section 5 – Fire Fighting Measures**

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**Extinguishing Media****Suitable**

Use any suitable for adjacent material.

**Firefighting****Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**

None Indicated

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**Section 6 – Accidental Release Measures**

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**Procedure(s) of Personal Precaution(s)**

Wear self-contained breathing apparatus, and heavy rubber gloves. (Refer to Section 8.)

**Methods for Cleaning Up**

Evacuate area. Absorb spill up. Place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. (See Section 13 for details on disposal.)

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**Section 7 – Handling and Storage**

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**Handling****User Exposure**

Avoid inhalation. Avoid contact with eyes, skin, and clothing.

**Storage****Suitable**

Keep tightly closed. Store at controlled room temperature.

**Special Requirements**

Refrigerate.

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**Section 8 – Exposure Controls/PPE**

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**Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment****Respiratory**

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

**Hand**

Compatible chemical-resistant gloves.

**Eye**

Chemical safety goggles with side shields.

**General Hygiene Measures**

Wash thoroughly after handling. Do not take internally.

**Exposure Guidelines**

No OSHA or ACHIH limits have been established.

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## Section 9 – Physical/Chemical Properties

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### Appearance

<b>Physical State</b>	Liquid		
<b>Color</b>	Clear		
<b>Molecular Weight</b>	N/A	<b>MP/MP Range</b>	N/A
<b>BP/BP Range</b>	N/A	<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A	<b>Volatile %</b>	N/A
<b>SG/Density</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Flash Point °F</b>	Non-Combustible		
<b>Solubility in Water</b>	N/A		

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## Section 10 – Stability and Reactivity

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### Stability

**Stable**

Stable.

**Materials to Avoid**

Strong oxidizing agents and strong bases.

**Conditions to Avoid**

None indicated.

**Hazardous Decomposition Products****Hazardous Decomposition Products**

None indicated.

**Hazardous Polymerization****Hazardous Polymerization**

Will not occur.

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## Section 11 – Toxicological Information

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### Route of Exposure

**Skin Contact**

May cause skin irritation.

**Skin Absorption**

May be harmful if absorbed through skin.

**Eye Contact**

May cause eye irritation.

**Inhalation**

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

**RTECS Number:** N/A

To the best of our knowledge, the chemical, physical and toxicological properties of these products have not been thoroughly investigated. Use Good Laboratory Practices when handling all of our products.

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## Section 12 – Ecological Information

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No data available



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## Section 13 – Disposal Considerations

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### Appropriate Method of Disposal of Substance or Preparation

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Observe all federal, state, and local environmental regulations.

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## Section 14 – Transport Information

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### DOT

**Proper Shipping Name:** Non regulated

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

**ID#:** None.

### IATA

**Non-Hazardous for Air Transport:** Non-hazardous for air transport.

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## Section 15 – Regulatory Information

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### United States Regulatory Information

**Sara Listed:** No

**TSCA Statement:** This product is a “Mixture”.

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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## Section 16 – Other Information

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### Disclaimer & Warranty

The information and recommendations contained on this data sheet are based on sources believed to be accurate and reliable, as of the date thereof, but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. It is the user's responsibility to determine the product's safe use and to comply with all applicable Local, State and Federal laws for the product's proper disposal. We reserve the right to rewrite the Material Safety Data Sheets periodically as new information becomes available.

*N/A = not available*



# Material Safety Data Sheet

Date Updated: 5-14-08

## Section 1 – Product and Company Information

**Product Name** 17  $\alpha$ -HYDROXYPROGESTERONE DILUENT  
**Product Numbers** Component of Kit(s): 1-2602/1-2602-5, 1-2612/1-2612-5

**Company** Salimetrics, LLC  
**Street Address** 101 Innovation Boulevard  
Suite 302  
**City, State, Zip, Country** State College, PA 16803 USA  
**Technical Phone** 814-234-7748  
**Fax** 814-234-1608

**Emergency Phone:** 814-234-7748  
(8am to 5:30pm, EST; Mon. – Fri.)

## Section 2 – Composition/Information on Ingredients

<u>Component(s)</u>	<u>CAS #</u>	<u>*APPROX. %</u>	<u>SARA 313</u>
Water	7732-18-5	90-99%	N/A
Sodium Chloride	7647-14-5	≤ 1%	
Other Components		≤ 0.5%	

\*Approx. % as wt/vol

**Formula** Solution  
**Synonym** 17  $\alpha$ -Hydroxyprogesterone Diluent

## Section 3 – Hazards Identification

**NFPA Rating**  
Health: 0                      Flammability: 0                      Reactivity: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 – First Aid Measures

**Oral Exposure**  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**  
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. If breathing has stopped, give artificial respiration.

**Dermal Exposure**  
In case of contact, immediately flush thoroughly with large amounts of water.

**Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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**Section 5 – Fire Fighting Measures**

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**Extinguishing Media****Suitable**

Use any suitable for adjacent material.

**Firefighting****Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**

None Indicated

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**Section 6 – Accidental Release Measures**

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**Procedure(s) of Personal Precaution(s)**

Wear self-contained breathing apparatus, and heavy rubber gloves. (Refer to Section 8.)

**Methods for Cleaning Up**

Evacuate area. Absorb spill up. Place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. (See Section 13 for details on disposal.)

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**Section 7 – Handling and Storage**

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**Handling****User Exposure**

Avoid inhalation. Avoid contact with eyes, skin, and clothing.

**Storage****Suitable**

Keep tightly closed. Store at controlled room temperature.

**Special Requirements**

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**Section 8 – Exposure Controls/PPE**

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**Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment****Respiratory**

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

**Hand**

Compatible chemical-resistant gloves.

**Eye**

Chemical safety goggles with side shields.

**General Hygiene Measures**

Wash thoroughly after handling. Do not take internally.

**Exposure Guidelines**

No OSHA or ACHIH limits have been established.

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## Section 9 – Physical/Chemical Properties

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### Appearance

<b>Physical State</b>	Liquid		
<b>Color</b>	Clear		
<b>Molecular Weight</b>	N/A	<b>MP/MP Range</b>	N/A
<b>BP/BP Range</b>	N/A	<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A	<b>Volatile %</b>	N/A
<b>SG/Density</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Flash Point °F</b>	Non-Combustible		
<b>Solubility in Water</b>	N/A		

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## Section 10 – Stability and Reactivity

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### Stability

**Stable**

Stable.

**Materials to Avoid**

Strong oxidizing agents and strong bases.

**Conditions to Avoid**

None indicated.

### Hazardous Decomposition Products

**Hazardous Decomposition Products**

None indicated.

### Hazardous Polymerization

**Hazardous Polymerization**

Will not occur.

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## Section 11 – Toxicological Information

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### Route of Exposure

**Skin Contact**

May cause skin irritation.

**Skin Absorption**

May be harmful if absorbed through skin.

**Eye Contact**

May cause eye irritation.

**Inhalation**

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

### Medical Conditions Aggravated by Exposure

None

### Toxicological Findings

None cited in Registry of Toxic Effects of Chemical Substances (RTECS).

### Carcinogenicity:

This material is not listed (LARC, NTP, OSHA) as a cancer causing agent.

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## Section 12 – Ecological Information

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No data available

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## Section 13 – Disposal Considerations

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### Appropriate Method of Disposal of Substance or Preparation

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Observe all federal, state, and local environmental regulations.

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## Section 14 – Transport Information

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### DOT

**Proper Shipping Name:** Non regulated

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

**ID#:** None.

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## Section 15 – Regulatory Information

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### United States Regulatory Information

**Sara Listed:** No

**TSCA Statement:** This product is a “Mixture”. The CAS numbers of all components are listed on the TSCA Inventory.

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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## Section 16 – Other Information

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### Disclaimer & Warranty

The information and recommendations contained on this data sheet are based on sources believed to be accurate and reliable, as of the date thereof, but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. It is the user’s responsibility to determine the product’s safe use and to comply with all applicable Local, State and Federal laws for the product’s proper disposal. We reserve the right to rewrite the Material Safety Data Sheets periodically as new information becomes available.

*N/A = not available*



# Material Safety Data Sheet

Date Updated: 9-16-10

## Section 1 – Product and Company Information

1. **Product Name** 2M STOP SOLUTION

2. **Product Name** 3M STOP SOLUTION

**Company** Salimetrics, LLC  
**Street Address** 101 Innovation Boulevard  
Suite 302  
**City, State, Zip, Country** State College, PA 16803 USA  
**Technical Phone** 814-234-7748  
**Fax** 814-234-1608

**Emergency Phone:** 814-234-7748  
(8am to 5:30pm, EST; Mon. – Fri.)

## Section 2 – Composition/Information on Ingredients

<u>Component(s)</u>	<u>CAS #</u>	<u>APPROX %</u>	<u>SARA 313</u>
Sulfuric Acid	7664-93-9	10 – 20 %	Y

**Formula** H<sub>2</sub>SO<sub>4</sub>  
**Synonyms** Sulfuric Acid, Oil of Vitriol

## Section 3 – Hazards Identification

### NFPA Rating

Health: 3                      Flammability: 0                      Reactivity: 2                      Special Hazards: W

### EMERGENCY OVERVIEW

Causes severe burns.  
May be fatal if inhaled or swallowed.  
Strong Inorganic acid mists containing sulfuric acid can cause cancer.  
May cause damage to respiratory passages and lungs.  
Reacts violently with water.  
Strong oxidizer.  
For additional information on toxicity, please refer to Section 11.

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## Section 4 – First Aid Measures

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Get medical assistance *for all cases of overexposure!*

### Oral Exposure

Do NOT induce vomiting; dilute by giving milk or water if conscious; get medical attention immediately.

### Inhalation Exposure

Remove to fresh air; give artificial respiration if breathing has stopped.

### Dermal Exposure

Immediately flush thoroughly with large amounts of water.

### Eye Exposure

Immediately flush thoroughly with water for at least 15 minutes.

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## Section 5 – Fire Fighting Measures

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Auto ignition Temp N/A

### Extinguishing Media

#### Suitable

Dry chemical or sand; DO NOT USE WATER OR FOAM.

### Firefighting

#### Protective Equipment

Wear self-contained breathing apparatus and protective clothing.

#### Specific Hazard(s)

Reacts with most metals to form explosive hydrogen gas that can form explosive mixtures with air.

May ignite combustible material on contact.

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## Section 6 – Accidental Release Measures

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### Procedure(s) of Personal Precaution(s)

Wear suitable protective equipment listed under Sec. 8, Exposure Controls/PPE

### Methods for Cleaning Up

Evacuate the area of all unnecessary personnel. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Neutralize spill, take up and containerize for proper disposal as described under Sec. 13 Disposal Considerations.

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## Section 7 – Handling and Storage

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### Handling

#### User Exposure

Do not breathe vapor. Do not get in eyes, on skin, or on clothing. Material must be handled or transferred in an approved fume hood or with equivalent ventilation.

### Storage

#### Suitable

Keep container closed and protected against physical damage. Keep upright; separate from all incompatible materials.

### Special Requirements

When diluting, add acid to water; NEVER ADD WATER TO ACID. Retained residue may make empty containers hazardous.

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## Section 8 – Exposure Controls/PPE

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### Engineering Controls

Safety shower, eye wash station, chemical fume hood.

### Personal Protective Equipment

#### Respiratory

Material must be handled or transferred in an approved fume hood or with equivalent ventilation.

If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier).

#### Hand

Protective gloves must be worn to prevent skin contact (Neoprene or equivalent).

#### Eye

Safety glasses with side shields must be worn at all times.

### General Hygiene Measures

Impervious protective clothing should be worn to prevent skin contact. Do not take internally.

Wash hands thoroughly after handling.

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## Section 9 – Physical/Chemical Properties

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### Appearance

<b>Physical State</b>	Liquid	<b>Color</b>	Clear
<b>Molecular Weight</b>	98.08	<b>PH</b>	N/A
<b>BP/BP Range (C 760 mmHg)</b>	290+°C	<b>MP/MP Range</b>	-10°C
<b>Freezing Point</b>	N/A	<b>Vapor Pressure (mm Hg):</b>	1 146C
<b>Vapor Density</b>	N/A	<b>Saturated Vapor Conc.</b>	N/A
<b>SG/Density(H<sub>2</sub>O=1)</b>	1.844 16/16C	<b>Bulk Density</b>	N/A
<b>Odor Threshold</b>	Sharp odor	<b>Volatile %</b>	N/A
<b>VOC Content</b>	N/A	<b>Water Content</b>	80 - 90%
<b>Solvent Content</b>	N/A	<b>Evaporation Rate (BuAc=1)</b>	<1
<b>Viscosity</b>	viscous	<b>Partition Coefficient</b>	N/A
<b>Decomposition Temp.</b>	N/A	<b>Flash Point °F</b>	Noncombustible.
<b>Flash Point °C</b>	Noncombustible.	<b>Explosion Limits</b>	N/A
<b>Flammable Limits LEL%</b>	N/A	<b>Flammable Limits UEL%</b>	N/A
<b>Auto ignition Temp</b>	N/A		
<b>Solubility</b>			
<b>Solubility in Water</b>	Miscible		

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## Section 10 – Stability and Reactivity

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### Stability

#### Stable

Stable

#### Materials to Avoid

Water, bases, oxidizers, reducing agents, metal powders, carbides, acetic acid, combustible material.

#### Conditions to Avoid

Adding water to acid can cause violent, exothermic reaction, possibly causing fire. Can react violently with alkalies.

### Hazardous Decomposition Products

SO<sub>x</sub>, Hydrogen (in presence of metals).

### Hazardous Polymerization

Does not occur.



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## Section 11 – Toxicological Information

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### Route of Exposure

#### Skin Contact

Causes severe burns on contact with any body tissue.

#### Skin Absorption

#### Eye Contact

Causes severe burns on contact with any body tissue.

#### Inhalation

Possibly fatal. Inhalation of mist may damage respiratory tract and lungs.

#### Ingestion

Possibly fatal. Do not take internally.

### RTECS Number:

### Exposure Guidelines:

OSHA – PEL: 1 mg/M<sup>3</sup> (TWA)

ACGIH – TLV: 1 mg/M<sup>3</sup> (TWA); 3 mg/M<sup>3</sup> (STEL)

### Carcinogenicity:

Strong inorganic acid mists containing sulfuric acid can cause cancer.

### Toxicity Data:

orl-rat LD50: 2140 mg/kg      ihl-gpg LC50: 18 mg/cu.m.

### Toxicological Findings:

Test on laboratory animals indicate material may produce adverse mutagenic and reproductive effects. Cited in Registry of Toxic Effects of Chemical Substances (RTECS).

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## Section 12 – Ecological Information

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No Data Available

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## Section 13 – Disposal Considerations

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### Appropriate Method of Disposal of Substance or Preparation

EPA Waste Number: D002

### Treatment:

#### Specified Technology

Neutralize to pH 6-9. ALWAYS contact a permitted waste disposer (TSD) for permissible treatment sites and to assure compliance with all current local, state and federal regulations.

Comply with Federal, State, and Local regulations on reporting releases. Refer to Sec. 15 Regulatory Information for reportable quantities and other regulatory data.

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## Section 14 – Transport Information

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### DOT

#### Proper Shipping Name

Sulfuric Acid

#### DOT ID Number

UN1830

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## Section 15 – Regulatory Information

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### United States Regulatory Information

The CAS number of this product is listed on the TSCA Inventory.

Component	SARA EHS (302)	SARA EHS TPQ (Lbs)	CERCLA RQ (Lbs)
Sulfuric Acid	Y	1000	1000

Component	OSHA Floor List	SARA 313	DeMinimis For SARA 313 (%)
Sulfuric Acid	Y	Y	1.0

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**DSL:**

**NDSL:**

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## Section 16 – Other Information

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### Warranty & Disclaimer

The information and recommendations contained on this data sheet are based on sources believed to be accurate and reliable as of the date thereof, but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. It is the user's responsibility to determine the product's safe use and to comply with all applicable Local, State and Federal laws for the product's proper disposal. We reserve the right to rewrite the Material Safety Data Sheets periodically as new information becomes available.

*N/A = not available*



# Material Safety Data Sheet

Date Updated: 5-14-08

## Section 1 – Product and Company Information

**Product Name** 10X WASH BUFFER CONCENTRATE

**Company** Salimetrics, LLC

**Street Address** 101 Innovation Boulevard  
Suite 302

**City, State, Zip, Country** State College, PA 16803 USA

**Technical Phone** 814-234-7748 **Emergency Phone:** 814-234-7748  
(8am to 5:30pm, EST; Mon. – Fri.)

**Fax** 814-234-1608

## Section 2 – Composition/Information on Ingredients

<u>Component(s)</u>	<u>CAS #</u>	<u>*APPROX.%</u>	<u>SARA 313</u>
Water	7732-18-5	80 – 90%	N/A
Sodium Chloride	7647-14-5	0 –10%	
Sodium Phosphate, Dibasic Anhydrous	7558-79-4	0 –5%	
Potassium Chloride	7447-40-7	0 –1%	
Potassium Phosphate	7778-77-0	0 –1%	
Polyoxyethylene Sorbitan Monolaurate, (Tween 20)	9005-64-5	0 – 2%	
Other Components		< 0.1% Non carcinogenic	

\*Approx. % as wt/vol

**Formula** Solution

## Section 3 – Hazards Identification

### NFPA Rating

Health: 0 Flammability: 0 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 – First Aid Measures

### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, give oxygen, and call a physician. If breathing has stopped, give artificial respiration.

### Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water. Wash contaminated clothing before reuse.

**Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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**Section 5 – Fire Fighting Measures**

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**Extinguishing Media****Suitable**

Water Spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Firefighting****Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**

May emit toxic fumes under fire conditions.

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**Section 6 – Accidental Release Measures**

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**Procedure(s) of Personal Precaution(s)**

Wear self-contained breathing apparatus, chemical safety goggles, rubber boots and heavy rubber gloves.

**Methods for Cleaning Up**

Cover spill with dry lime or soda ash. Pick up, place in a closed container and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. (See Section 13 for details on disposal.)

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**Section 7 – Handling and Storage**

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**Handling****User Exposure**

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage****Suitable**

Keep tightly closed. Store at 2-8<sup>0</sup>C (35.6-46.4<sup>0</sup>F).

**Special Requirements**

Refrigerate.

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**Section 8 – Exposure Controls/PPE**

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**Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment****Respiratory**

NIOSH/MSHA – approved respirator.

**Hand**

Compatible chemical-resistant gloves.

**Eye**

Chemical safety goggles with side shields.

**General Hygiene Measures**

Wash thoroughly after handling.

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## Section 9 – Physical/Chemical Properties

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### Appearance

<b>Physical State</b>	Liquid		
<b>Color</b>	Clear		
<b>Molecular Weight</b>	N/A	<b>MP/MP Range</b>	N/A
<b>BP/BP Range</b>	N/A	<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A	<b>Volatile %</b>	N/A
<b>SG/Density</b>	N/A	<b>Evaporation Rate</b>	N/A
<b>Flash Point °F</b>	>230°F	<b>Flash Point °C</b>	>109°C
<b>Solubility in Water</b>	N/A		

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## Section 10 – Stability and Reactivity

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### Stability

**Stable**

Stable.

**Materials to Avoid**

Strong oxidizing agents and strong bases.

**Conditions to Avoid**

None indicated.

**Hazardous Decomposition Products**

May emit toxic fumes of carbon dioxide & carbon monoxide.

**Hazardous Polymerization**

Will not occur.

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## Section 11 – Toxicological Information

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### Route of Exposure

**Skin Contact**

May cause skin irritation.

**Skin Absorption**

May be harmful if absorbed through skin.

**Eye Contact**

May cause eye irritation.

**Inhalation**

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

**RTECS Number:** N/A (for mixture). Polysorbate 20: #TR7400000. See actual entry in RTECS for more complete information.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## Section 12 – Ecological Information

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No data available

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## Section 13 – Disposal Considerations

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### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

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## Section 14 – Transport Information

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Not Regulated.

### DOT

**Proper Shipping Name:** None

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

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## Section 15 – Regulatory Information

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### United States Regulatory Information

**Sara Listed:** No

**TSCA Statement:** This product is a “Mixture”. The CAS numbers of all components are listed on the TSCA Inventory.

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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## Section 16 – Other Information

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### Disclaimer & Warranty

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*N/A = not available*



# Material Safety Data Sheet

Date Updated: 5-14-08

## Section 1 – Product and Company Information

**Product Name** TMB - One Component Peroxidase Substrate

**Company** Salimetrics, LLC

**Street Address** 101 Innovation Boulevard  
Suite 302

**City, State, Zip, Country** State College, PA 16803 USA

**Technical Phone** 814-234-7748

**Fax** 814-234-1608

**Emergency Phone:** 814-234-7748  
(8am to 5:30pm, EST; Mon. – Fri.)

## Section 2 – Composition/Information on Ingredients

<u>Component(s)</u>	<u>CAS #</u>	<u>APPROX %</u>	<u>SARA 313</u>
Non-carcinogenic analog of Benzedine	N/A	N/A	
3,3',5,5' Tetramethybenzidine		≤ 0.05 %	
Nonreducing Oligosaccharides		≤ 3 %	
Polypeptide Complex		≤ 0.01%	
Hydrogen Peroxide		≤ 0.02 %	
.			
<b>Formula</b>	N/A		
<b>Synonyms</b>			

## Section 3 – Hazards Identification

Health hazards not known at this time.  
This TMB 1 component does not contain aprotic solvents.  
For additional information on toxicity, please refer to Section 11.

## Section 4 – First Aid Measures

### Oral Exposure

Induce vomiting and consult a physician.

### Inhalation Exposure

In inhaled, remove to fresh air. If breathing is difficult give oxygen. If not breathing, give artificial respiration. If discomfort persists obtain medical attention.

### Dermal Exposure

Wash with soap and water. Wash contaminated clothing before reuse.

### Eye Exposure

Flush with copious amounts of water or eyewash saline for at least 15 minutes.

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## Section 5 – Fire Fighting Measures

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**Auto ignition Temp** N/A

**Extinguishing Media**

**Suitable**

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Special Procedure**

None special

**Unusual Firefighting Procedures**

None special

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## Section 6 – Accidental Release Measures

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**Procedure(s) of Personal Precaution(s)**

Wear cotton filter mask.

**Methods for Cleaning Up**

Cover with absorbant.

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## Section 7 – Handling and Storage

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**Handling**

**User Exposure**

Avoid contact with skin; avoid ingestion.

**Storage**

**Suitable**

Keep lid tightly closed. Store at 2°C to 8°C.

**Special Requirements**

Refrigerate and protect from direct sunlight or UV sources.

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## Section 8 – Exposure Controls/PPE

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**Engineering Controls**

Safety shower, eye bath and local exhaust.

**Personal Protective Equipment**

**Respiratory**

Wear cotton mask. Use local exhaust

**Hand**

Wear rubber or vinyl gloves.

**Eye**

Safety glasses / goggles.

**Other**

Laboratory apron or equivalent.

**General Hygiene Measures**

Wash thoroughly after handling. Do not take internally.



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## Section 9 – Physical/Chemical Properties

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### Appearance

<b>Physical State</b>	Liquid
<b>Color</b>	Clear to light yellow
<b>PH</b>	3.55 ± 0.20
<b>SG/Density</b>	1.010
<b>Flammable Limits</b>	N/A
<b>Absorbance @ 280nm to 290nm</b>	0.450 ± 0.100
<b>@ 620nm to 650nm</b>	0.001 ± 0.020

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## Section 10 – Stability and Reactivity

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### Stability

#### Stable

Stable for minimum of 2 years @ 2 – 8°C.

#### Materials & Conditions to Avoid

Strong oxidizing agents, metal.

Protect from direct UV light; avoid elevated temperatures.

### Hazardous Decomposition Products

None known

### Hazardous Polymerization

Will not occur

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## Section 11 – Toxicological Information

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### Route of Exposure

#### Skin Contact

May cause skin irritation.

#### Skin Absorption

May be harmful if absorbed through skin.

#### Eye Contact

May cause eye irritation.

#### Inhalation

May be harmful if inhaled.

#### Ingestion

May be harmful if swallowed.

**RTECS Number** N/A

### Signs & Symptoms of Exposure

Not known at this time.

Mild oxidizing agent; toxicological properties have not been thoroughly investigated.

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## Section 12 – Ecological Information

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No data available.

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## Section 13 – Disposal Considerations

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### Appropriate Method of Disposal of Substance or Preparation

Normal disposal with copious amounts of water. Observe all local, state, and federal regulations.

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## Section 14 – Transport Information

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This TMB 1 component does not contain aprotic solvents.

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## Section 15 – Regulatory Information

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### United States Regulatory Information

Sara Listed: N/A

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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## Section 16 – Other Information

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### Warranty & Disclaimer

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*N/A = not available*