

**Safety Data Sheet (SDS)**

Version 2

Reviewed on 1.1.2024

**1. Product Identifier**

Product Name: Rabbit IgG ELISA kit

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

5867 South Garnett Road, Tulsa, Oklahoma 74146 USA

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics-us.com>Information and Support: [customer\\_service-us@cytodiagnosics.com](mailto:customer_service-us@cytodiagnosics.com)

Components: 1X Assay Diluent (contains TWEEN™ 20)  
 10X Wash Buffer (contains TWEEN™ 20)  
 200X HRP-Detection Antibody conjugate (contains Glycerol)  
 One-step TMB Substrate (contains Hydrogen peroxide and TMB)  
 Stop Solution (contains Sulfuric Acid)

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)
TWEEN™ 20	500-018-3	9005-64-5	<0.1	-
Glycerol	200-289-5	56-81-5	<50	-
TMB	-	54827-17-7	<0.1	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Hydrogen peroxide	231-765-0	7722-84-1	0.1-1	STOT SE 3 (H335) Skin Corr. 1A (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Chronic 3 (H412) Ox. Liq. 1 (H271)
Sulphuric acid	231-639-5	7664-93-9	2	Skin Corr. 1A (H314)

**2. GHS / CLP - GHS - Classification**

Cytodiagnostics Inc. 5867 South Garnett Road, Tulsa, Oklahoma 74146 USA  
 Tel: 866-344-3954 Fax: 289-204-9100 E-mail: [customer\\_service-us@cytodiagnosics.com](mailto:customer_service-us@cytodiagnosics.com)  
<https://www.cytodiagnosics-us.com>

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**3. Signal Word**Warning  
DANGER**4. DSD / DPD - Classification according to EU Directives 67/548/EEC or 1999/45/EC***Classification*C - Corrosive  
Xi - Irritant*R-phrase(s)*R35 - Causes severe burns  
R36/38 - Irritating to eyes and skin  
R43 - May cause sensitization by skin contact*S-phrase(s)*S24 - Avoid contact with skin  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection**4. Other information**

A safety data sheet follows for all potentially hazardous components—all other components are non-hazardous.

**5. Transport Information**

DOT	Not dangerous goods
IATA	Not dangerous goods
ADR	Not dangerous goods

See additional safety data sheets.

**1. Chemical and Company Identification**

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Product Name: 200X HRP-Detection Antibody conjugate

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

5867 South Garnett Road, Tulsa, Oklahoma 74146 USA

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics-us.com>Information and Support: [customer\\_service-us@cytodiagnosics.com](mailto:customer_service-us@cytodiagnosics.com)**2. Hazards Identification*****GHS - Classification***

Ozone - Not applicable

***GHS Label elements, including precautionary statements***

Not dangerous

***Precautionary Statements - EU (§28, 1272/2008)***

P280 - Wear protective gloves/ protective clothing

***Other information***

No information available

**3. Composition/ Information on Ingredients*****Substances***

Not applicable

***Components***

Glycerol; CAS# 56-81-5

*For the full text of the H-Statements mentioned in this Section, see Section 16***4. First Aid Measures*****In case of skin contact:*** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.***In case of ingestion:*** Clean mouth with water. Drink plenty of water.***In case of eye contact:*** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.***If case of inhalation:*** Move to fresh air***Notes to physician:*** Treat symptomatically**5. Fire Fighting Measures*****Flammable properties***

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Not flammable

**Flash point**

Not determined

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Explosion Data**

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.

**6. Accidental Release Measures****Personal precautions**

Ensure adequate ventilation.

**Environmental precautions**

Try to prevent the material from entering drains or water courses.

**Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers.

**7. Handling and Storage****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice.

**Technical measures/Storage conditions**

Keep containers tightly closed in a dry, cool, and well-ventilated place.

**8. Exposure Controls/Personal Protection**

## EXPOSURE GUIDELINES

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This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol 56-81-5	TWA: 10 mg/m <sup>3</sup> mist	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d962 (11th Cir., 1992).

**Engineering measures**

Showers  
 Eyewash stations  
 Ventilation systems

**PERSONAL PROTECTIVE EQUIPMENT**
**Eye/face protection**

Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Long sleeved clothing. Protective gloves.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties**

Appearance:	no data available	Physical state at 20°C:	Liquid
Odor:	no data available	Vapor pressure:	no data available

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Odor threshold:	no data available	Vapor density:	no data available
pH:	no data available	Relative density:	no data available
Melting Point/Freezing point:	no data available	Solubility:	no data available
Boiling point/boiling range:	no data available	Specific Gravity:	no data available
Flash points:	no data available	Auto-ignition temperature:	no data available
Evaporation rates:	no data available	Decomposition temperature:	no data available
Flammability (solid; gas):	no data available	VOC Content (%):	50

**10. Stability and Reactivity**

**Stability:** Stable under recommended storage conditions

**Incompatible products:** None known based on information supplied

**Hazardous decomposition products:** None known based on information supplied

**Hazardous polymerization:** Hazardous polymerization does not occur

**Conditions to avoid:** None known based on information supplied

**11. Toxicological Information**
**Acute Toxicity**

Product does not present an acute toxicity hazard based on known or supplied information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerol	Rat - 12,600 mg/kg	Rabbit - >10,000 mg/kg	-

**Chronic Toxicity**

Target Organ Effects: Eyes, Kidney, Respiratory system, Skin.

**12. Ecological Information**
**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

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Chemical Name	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol	51 - 57: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static	500: 24 h <i>Daphnia magna</i> mg/L EC50

**13. Disposal Considerations*****Waste disposal methods***

This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

***Contaminated packaging***

Do not re-use empty containers

**14. Transport Information**

<b>DOT</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods
<b>ADR</b>	Not dangerous goods

**15. Regulatory Information*****WHMIS Note***

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**16. Other Information**

This product is for laboratory research purposes, not for diagnostic or therapeutic use in humans or animals.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make independent decisions regarding completeness of the information based on all sources available. Cytodiagnostics Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

**End of MSDS****1. Chemical and Company Identification**

Product Name: One-step TMB Substrate

Product Use: Research Laboratory Use

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Manufacturer/Supplier: CytoDiagnostics Inc.  
5867 South Garnett Road, Tulsa, Oklahoma 74146 USA  
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Information and Support: [customer\\_service-us@cytodiagnostics.com](mailto:customer_service-us@cytodiagnostics.com)

**2. Hazards Identification****GHS - Classification**

Class 1A Causes severe skin burns and eye damage (H314)  
Class 1 Causes serious eye damage (H318)  
Class 4 Harmful if swallowed (H302)  
Class 4 Harmful if inhaled (H332)

**GHS Label elements, including precautionary statements****Signal Word**

Warning

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear protective gloves/ protective clothing

**Other information**

No information available

**3. Composition/ Information on Ingredients****Substances**

Not applicable

**Components**

TMB; CAS# 54827-17-7

Hydrogen peroxide; CAS# 7722-84-1

*For the full text of the H-Statements mentioned in this Section, see Section 16***4. First Aid Measures**

**In case of skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**In case of ingestion:** Clean mouth with water. Drink plenty of water.



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***In case of eye contact:*** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

***If case of inhalation:*** Move to fresh air

***Notes to physician:*** Treat symptomatically

**5. Fire Fighting Measures*****Flammable properties***

Not flammable

***Flash point***

Not determined

***Suitable extinguishing media***

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

***Explosion Data***

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

***Protective equipment and precautions for firefighters***

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.

**6. Accidental Release Measures*****Personal precautions***

Ensure adequate ventilation.

***Environmental precautions***

Try to prevent the material from entering drains or water courses.

***Methods for containment***

Prevent further leakage or spillage if safe to do so.

***Methods for cleaning up***

Pick up and transfer to properly labeled containers.

**7. Handling and Storage*****Advice on safe handling***

Handle in accordance with good industrial hygiene and safety practice.

***Technical measures/Storage conditions***

Keep containers tightly closed in a dry, cool, and well-ventilated place.

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**8. Exposure Controls/Personal Protection****EXPOSURE GUIDELINES**

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup> (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m <sup>3</sup>	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>

**Engineering measures**

Showers  
Eyewash stations  
Ventilation systems

**PERSONAL PROTECTIVE EQUIPMENT****Eye/face protection**

Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Long sleeved clothing. Protective gloves.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties**

Appearance:	no data available	Physical State at 20°C:	Liquid
Odor:	no data available	Vapor pressure:	no data available
Odor threshold:	no data available	Vapor density:	no data available
pH:	3.3 – 3.8	Relative density:	no data available
Melting Point/Freezing point:	no data available	Solubility:	no data available

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Boiling point/boiling range:	no data available	Specific Gravity:	no data available
Flash points:	no data available	Auto-ignition temperature:	no data available
Evaporation rates:	no data available	Decomposition temperature:	no data available
Flammability (solid; gas):	no data available	VOC Content (%):	not applicable

**10. Stability and Reactivity****Stability:** Stable under recommended storage conditions**Incompatible products:** None known based on information supplied**Hazardous decomposition products:** None known based on information supplied**Hazardous polymerization:** Hazardous polymerization does not occur**Conditions to avoid:** None known based on information supplied**11. Toxicological Information****Acute Toxicity**

Product does not present an acute toxicity hazard based on known or supplied information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide	801 mg/kg (Rat)	4060 mg/kg (Rat) 2000 mg/kg (Rabbit)	2 mg/L (Rat) 4 h

**Chronic Toxicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide	A3	Group 3	-	-

**Chronic Toxicity**

Target Organ Effects: None known.

**12. Ecological Information****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates

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Hydrogen peroxide	2.5: 72 h <i>Chlorella vulgaris</i> mg/L EC50	16.4: 96 h <i>Pimephales promelas</i> mg/L LC50 18-56: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 10.0-32.0: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	7.7: 24 h <i>Daphnia magna</i> mg/L EC50 18 - 32: 48 h <i>Daphnia magna</i> mg/L EC50 Static
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**13. Disposal Considerations*****Waste disposal methods***

Dispose of in accordance with federal, state, and local regulations

***Contaminated packaging***

Do not re-use empty containers

<b>Chemical Name</b>	<b>California Hazardous Waste Status</b>
Hydrogen peroxide	Toxic Corrosive Ignitable Reactive

**14. Transport Information****DOT** Not dangerous goods**IATA** Not dangerous goods**ADR** Not dangerous goods**15. Regulatory Information*****WHMIS Note***

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**16. Other Information*****Full text of H-Statements referred to under sections 2 and 3***

H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation  
 H314 - Causes severe skin burns and eye damage H302 + H332 - Harmful if swallowed or if inhaled H412  
 - Harmful to aquatic life with long lasting effects H271 - May cause fire or explosion; strong oxidizer

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This product is for laboratory research purposes, not for diagnostic or therapeutic use in humans or animals.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make independent decisions regarding completeness of the information based on all sources available. Cytodiagnostics Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

**End of MSDS**

**1. Chemical and Company Identification**

Product Name: Stop Solution

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

5867 South Garnett Road, Tulsa, Oklahoma 74146 USA

Cytodiagnostics Inc. 5867 South Garnett Road, Tulsa, Oklahoma 74146 USA  
Tel: 866-344-3954 Fax: 289-204-9100 E-mail: [customer\\_service-us@cytodiagnosics.com](mailto:customer_service-us@cytodiagnosics.com)  
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Information and Support: [customer\\_service-us@cytodiagnosics.com](mailto:customer_service-us@cytodiagnosics.com)

**2. Hazards Identification****GHS - Classification**

Class 1A Causes severe skin burns and eye damage (H314)

Class 1 Causes serious eye damage (H318)

Class 1 Corrosive to metals (H290)

**GHS Label elements, including precautionary statements****Signal Word**

Warning  
Corrosive

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear protective gloves/ protective clothing

**Other information**

No information available

**3. Composition/ Information on Ingredients****Substances**

Not applicable

**Components**

Sulphuric acid; CAS# 7664-93-9

*For the full text of the H-Statements mentioned in this Section, see Section 16***4. First Aid Measures****In case of skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.**In case of ingestion:** Clean mouth with water. Drink plenty of water.

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***In case of eye contact:*** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

***If case of inhalation:*** Move to fresh air

***Notes to physician:*** Treat symptomatically

**5. Fire Fighting Measures*****Flammable properties***

Not flammable

***Flash point***

Not determined

***Suitable extinguishing media***

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

***Explosion Data***

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

***Protective equipment and precautions for firefighters***

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.

**6. Accidental Release Measures*****Personal precautions***

Ensure adequate ventilation.

***Environmental precautions***

Try to prevent the material from entering drains or water courses.

***Methods for containment***

Prevent further leakage or spillage if safe to do so.

***Methods for cleaning up***

Pick up and transfer to properly labeled containers.

**7. Handling and Storage*****Advice on safe handling***

Handle in accordance with good industrial hygiene and safety practice.

***Technical measures/Storage conditions***

Keep containers tightly closed in a dry, cool, and well-ventilated place.

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**8. Exposure Controls/Personal Protection**
**EXPOSURE GUIDELINES**

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulphuric acid 7664-93-9	TWA: 0.2 mg/m <sup>3</sup> thoracic fraction	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d962 (11th Cir., 1992).

**Engineering measures**

Showers  
Eyewash stations  
Ventilation systems

**PERSONAL PROTECTIVE EQUIPMENT**
**Eye/face protection**

Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Long sleeved clothing. Protective gloves.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties**

Appearance:	Colorless	Physical State at 20°C:	Liquid
Odor:	no data available	Vapor pressure:	no data available
Odor threshold:	no data available	Vapor density:	no data available
pH:	1.2 at 5 g/L	Relative density:	no data available
Melting Point/Freezing point:	no data available	Solubility:	no data available
Boiling point/boiling range:	no data available	Specific Gravity:	no data available



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Flash points:	no data available	Auto-ignition temperature:	no data available
Evaporation rates:	no data available	Decomposition temperature:	no data available
Flammability (solid; gas):	no data available	VOC Content (%):	not applicable

**10. Stability and Reactivity**

**Stability:** Stable under recommended storage conditions

**Incompatible products:** None known based on information supplied

**Hazardous decomposition products:** None known based on information supplied

**Hazardous polymerization:** Hazardous polymerization does not occur

**Conditions to avoid:** None known based on information supplied

**11. Toxicological Information****Acute Toxicity**

Product does not present an acute toxicity hazard based on known or supplied information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulphuric acid	2140 mg/kg (Rat)	-	510 mg/m <sup>3</sup> (Rat) 2 h 347 ppm (Rat) 1 h

**Chronic Toxicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulphuric acid	A2	Group 1	Known	X

**ACGIH:** (American Conference of Governmental Industrial Hygienists): A2 - Suspected Human Carcinogen

**IARC:** (International Agency for Research on Cancer): Group 1 - Carcinogenic to Humans

**NTP:** (National Toxicity Program): Known - Known Carcinogen

**OSHA:** (Occupational Safety & Health Administration): X - Present

**Chronic Toxicity**

Target Organ Effects: Eyes, Respiratory system, Skin, Teeth

**12. Ecological Information****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
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Sulphuric acid

500: 96 h *Brachydanio rerio*  
mg/L LC50 static29: 24 h *Daphnia magna* mg/L EC50**13. Disposal Considerations*****Waste disposal methods***

This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

***Contaminated packaging***

Do not re-use empty containers

Chemical Name	California Hazardous Waste Status
Sulphuric acid	Toxic Corrosive

**14. Transport Information**

**DOT** Not dangerous goods  
**IATA** Not dangerous goods  
**ADR** Not dangerous goods

**15. Regulatory Information*****WHMIS Note***

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**16. Other Information*****Full text of H-Statements referred to under sections 2 and 3***

H314 - Causes severe skin burns and eye damage

This product is for laboratory research purposes, not for diagnostic or therapeutic use in humans or animals.

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make independent decisions regarding completeness of the information based on all sources available. Cytodiagnostics Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

**End of MSDS**