

Safety Data Sheet (SDS)

Version 1.1

Reviewed on 1.10.2024

1. Product Identifier

Product Name: Human VEGF ELISA kit

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics.com>Information and Support: customer_service@cytodiagnosics.com

Components: HRP-Streptavidin Conjugate (contains Glycerol)
 Assay Diluent A (contains Proclin 300 Mixture)
 Assay Diluent B (contains Proclin 300 Mixture)
 Detection Diluent (contains Proclin 300 Mixture)
 Wash Buffer Concentrate (contains TWEEN™ 20)
 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 | 40 | - |
| Proclin™ 300 (Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-One) | 911-418-6 | 55965-84-9 | < 0.1 | Aquatic Chronic 4 (H413) Acute Tox. 3 (H301) Acute Tox. 2 (H330) (H310) Skin Corr. 1C (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| TMB | - | 54827-17-7 | <0.1 | STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) |
| Hydrogen peroxide | - | 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 | <6 | Skin Corr. 1A (H314) |

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

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1. Chemical and Company Identification

Product Name: Assay Diluent

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics.com>Information and Support: customer_service@cytodiagnosics.com**2. Hazards Identification*****Classification of the substance or mixture***

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]
Sensitization, skin - Category 1

Label elements***Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]******Signal Word***

Warning

Hazard statements

H317 - May cause an allergic skin reaction.

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

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Other information

No information available

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

Not applicable

Components

Proclin™ 300 (Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-One);
CAS# 55965-84-9

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4. First Aid Measures

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water

In case of ingestion: Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

If case of inhalation: Move to fresh air. If symptoms persist, call a physician.

Protection of first aiders: Use personal protective equipment.

Notes to physician: May cause sensitization of susceptible persons.

5. Fire Fighting Measures

Suitable extinguishing media

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

Extinguishing media which shall not be used for safety reasons

No information available

Special hazard

None in particular

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear

6. Accidental Release Measures

Personal precautions

Use personal protective equipment. Avoid contact with the skin and the eyes.

See Section 12 for additional information

Environmental precautions

Prevent entry into waterways, sewers, basements, or confined areas. Do not flush into surface water or sanitary sewer system

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust)

7. Handling and Storage

Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment.

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Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

Specific end uses

Specific use(s): No information available

Exposure scenario: No information available

8. Exposure Controls/Personal Protection
Control parameters

Exposure limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL): No information available

Predicted No Effect Concentration (PNEC): No information available

Exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye protection: Tightly fitting safety goggles

Hand protection: Protective gloves

Skin and body protection: Long sleeved clothing.

Respiratory protection: No special protective equipment required

Thermal hazards: No information available

Hygiene measures: When using, do not eat, drink, or smoke. Remove and wash contaminated clothing before re-use.

Environmental exposure controls: Do not allow material to contaminate ground water system.

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: | 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 (%): | no data available |

10. Stability and Reactivity

Reactivity: No information available

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: None under normal processing

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Conditions to avoid: Heat, flames, and sparks**Incompatible materials:** None in particular**Hazardous decomposition products:** None under normal use**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 |
|---------------|----------------|-------------|-----------------|
| Proclin 300 | 53 mg/kg (Rat) | - | - |

Chronic Toxicity

Carcinogenicity: This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

Target Organ Effects: Eyes. Respiratory system. Skin.

12. Ecological Information**Ecotoxicity:** Contains no substances known to be hazardous to the environment or that are not degradable in wastewater treatment plants**Persistence and degradability:** No information available**Bioaccumulative potential:** No information available**Mobility in soil:** No information available**Results of PBT and vPvB assessment:** No information available**Other adverse effect:** No information available**13. Disposal Considerations****Waste from residues / unused products**

Dispose of in accordance with local regulations

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or Disposal

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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14. Transport Information

| | |
|-----------------|---------------------|
| IMDG/IMO | Not dangerous goods |
| IATA | Not dangerous goods |
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ICAO | Not dangerous goods |

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010

Safety, health and environmental regulations/legislation specific for the substance or mixture
No information available

Chemical Safety Assessment
No information available

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

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1. Chemical and Company Identification

Product Name: Detection Diluent

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics.com>Information and Support: customer_service@cytodiagnosics.com**2. Hazards Identification*****Classification of the substance or mixture***

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]
Sensitization, skin - Category 1

Label elements***Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]******Signal Word***

Warning

Hazard statements

H317 - May cause an allergic skin reaction.

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

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Other information

No information available

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

Not applicable

Components

Proclin™ 300 (Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-One);
CAS# 55965-84-9

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4. First Aid Measures

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water

In case of ingestion: Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

If case of inhalation: Move to fresh air. If symptoms persist, call a physician.

Protection of first aiders: Use personal protective equipment.

Notes to physician: May cause sensitization of susceptible persons.

5. Fire Fighting Measures***Suitable extinguishing media***

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

Extinguishing media which shall not be used for safety reasons

No information available

Special hazard

None in particular

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear

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

Use personal protective equipment. Avoid contact with the skin and the eyes.

See Section 12 for additional information

Environmental precautions

Prevent entry into waterways, sewers, basements, or confined areas. Do not flush into surface water or sanitary sewer system

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust)

7. Handling and Storage***Precautions for safe handling***

Ensure adequate ventilation. Wear personal protective equipment.

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Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

Specific end uses

Specific use(s): No information available

Exposure scenario: No information available

8. Exposure Controls/Personal Protection
Control parameters

Exposure limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL): No information available

Predicted No Effect Concentration (PNEC): No information available

Exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye protection: Tightly fitting safety goggles

Hand protection: Protective gloves

Skin and body protection: Long sleeved clothing.

Respiratory protection: No special protective equipment required

Thermal hazards: No information available

Hygiene measures: When using, do not eat, drink, or smoke. Remove and wash contaminated clothing before re-use.

Environmental exposure controls: Do not allow material to contaminate ground water system.

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: | 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 (%): | no data available |

10. Stability and Reactivity

Reactivity: No information available

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: None under normal processing

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Reviewed on 1.10.2024

Conditions to avoid: Heat, flames, and sparks

Incompatible materials: None in particular

Hazardous decomposition products: None under normal use

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 |
|---------------|----------------|-------------|-----------------|
| Proclin 300 | 53 mg/kg (Rat) | - | - |

Chronic Toxicity

Carcinogenicity: This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

Target Organ Effects: Eyes. Respiratory system. Skin.

12. Ecological Information

Ecotoxicity: Contains no substances known to be hazardous to the environment or that are not degradable in wastewater treatment plants

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Results of PBT and vPvB assessment: No information available

Other adverse effect: No information available

13. Disposal Considerations

Waste from residues / unused products

Dispose of in accordance with local regulations

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or Disposal

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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14. Transport Information

| | |
|-----------------|---------------------|
| IMDG/IMO | Not dangerous goods |
| IATA | Not dangerous goods |
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ICAO | Not dangerous goods |

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010

Safety, health and environmental regulations/legislation specific for the substance or mixture
No information available

Chemical Safety Assessment
No information available

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

Safety Data Sheet (SDS)

Version 1.1

Reviewed on 1.10.2024

1. Chemical and Company Identification

Product Name: HRP-Streptavidin Concentrate

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics.com>Information and Support: customer_service@cytodiagnostics.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

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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.

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

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

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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.

| 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

| | |
|-------------|---------------------|
| DOT | Not dangerous goods |
| IATA | Not dangerous goods |
| ADR | Not dangerous goods |

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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

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Reviewed on 1.10.2024

1. Chemical and Company Identification

Product Name: One-step TMB Substrate

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics.com>Information and Support: customer_service@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

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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

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.

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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

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 (vacated) TWA: 1.4 mg/m ³ (vacated) TWA: 1.4 mg/m ³ | IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³ |

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 |
|-------------------|---|---|---|
| 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

| Chemical Name | California Hazardous Waste Status |
|-------------------|------------------------------------|
| 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

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

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1. Chemical and Company Identification

Product Name: Stop Solution

Product Use: Research Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc.

919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

Phone: (866) 344-3954

Web: <http://www.cytodiagnostics.com>Information and Support: customer_service@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.

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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**

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 ³ thoracic fraction | TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³ | IDLH: 15 mg/m ³ TWA: 1 mg/m ³ |

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 |
| 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 |

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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 ³ (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 |
|----------------|---|---|
| Sulphuric acid | 500: 96 h <i>Brachydanio rerio</i> mg/L LC50 static | 29: 24 h <i>Daphnia magna</i> mg/L EC50 |

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Reviewed on 1.10.2024

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.

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