

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

Product Name: Human Klotho DuoSet ELISA, 5 Plate
 Catalog Number: DY5334-05
 Components: Capture Antibody
 Detection Antibody
 Standard (contains Proclin 300 Mixture = .005%)
 Streptavidin-HRP (contains Proclin 300 Mixture = .005%)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: For research use only.

1.3 Details of the supplier of the safety data sheet

| | | | |
|-----------------|---|----------------|--|
| Company: | R&D Systems, Inc. a Bio-Techne Brand 614 McKinley Place NE Minneapolis, MN 55413, USA | Telephone: | 1-800-343-7475 |
| | | Fax: | 1-612-656-4400 |
| | | Internet: | www.rndsystems.com |
| | | Email address: | info@bio-techne.com |
| Canada: | 21 Canmotor Ave Toronto, ON M8Z 4E6 | Telephone: | 1-855-668-8722 |
| | | Fax: | 902-827-6402 |
| | | Email address: | Canada.inquiries@bio-techne.com |
| United Kingdom: | 19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB | Telephone: | 44 (0)1235 529449 |
| | | Fax: | 44 (0)1235 533420 |
| | | Email address: | info.emea@bio-techne.com |
| China: | 1193 Changning Road Unit 1901, Raffles Changning Office Shanghai, China | Telephone: | 86-400-821-3475 |
| | | Fax: | 76 (021) 52371001 |
| | | Email address: | techsupport.cn@bio-techne.com |

1.4 Emergency Telephone Number

For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within U.S. 1-800-262-8200 Worldwide 1-703-741-5500
 Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

2. HAZARDS IDENTIFICATION

See additional safety data sheets.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

2.2 Label Elements

This product does not need to be labeled in accordance with Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

2.3 Other Hazards - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Consult a doctor and show this safety data sheet.

If Inhaled

Remove to fresh air and monitor breathing.

In Case of Skin Contact

Wash skin with soap and water. If irritation occurs, consult a doctor.

In Case of Eye Contact

Flush with water for at least 15 minutes. If irritation occurs, consult a doctor.

If Swallowed

Rinse mouth with water. Consult a doctor if you feel unwell.

| | | | |
|-----|--|--|-------------------------|
| 4.2 | Most important symptoms and effects, both acute and delayed | | |
| | To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. | | |
| 4.3 | Indication of immediate medical attention and special treatment needed | | |
| | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. | | |
| 5. | FIRE-FIGHTING MEASURES | | |
| 5.1 | Extinguishing Media | | |
| | Suitable extinguishing media | | |
| | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. | | |
| 5.2 | Special hazards arising from the substance or mixture | | |
| | In combustion, may emit toxic fumes. | | |
| 5.3 | Precautions for fire-fighters | | |
| | Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus. | | |
| 6. | ACCIDENTAL RELEASE MEASURES | | |
| 6.1 | Personal precautions, protective equipment and emergency procedures | | |
| | Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas. | | |
| 6.2 | Environmental precautions | | |
| | Do not let product enter drains. | | |
| 6.3 | Methods and materials for containment and cleaning up | | |
| | Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS. | | |
| 6.4 | Reference to other sections | | |
| | For required PPE see section 8. For disposal see section 13. | | |
| 7. | HANDLING AND STORAGE | | |
| 7.1 | Precautions for safe handling | | |
| | Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure. | | |
| 7.2 | Conditions for safe storage, including any incompatibilities | | |
| | Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. | | |
| 7.3 | Specific end uses | | |
| | Not applicable. | | |
| 8. | EXPOSURE CONTROLS/PERSONAL PROTECTION | | |
| 8.1 | Control parameters | | |
| | Components with workplace and control parameters | | |
| | Contains no substances with occupational exposure limit values. | | |
| 8.2 | Exposure controls | | |
| | Appropriate Engineering Controls | | |
| | Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. | | |
| 8.3 | Personal Protective Equipment | | |
| | Eye / Face Protection | | |
| | Use appropriate safety glasses. | | |
| | Skin Protection | | |
| | Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling. | | |
| | Body Protection | | |
| | Wear appropriate protective clothing. | | |
| | Respiratory Protection | | |
| | If risk assessment indicates necessary, use a suitable respirator. | | |
| 9. | PHYSICAL AND CHEMICAL PROPERTIES | | |
| 9.1 | Information on basic physical and chemical properties | | |
| | Appearance | Lyophilized white powder or clear liquid | Vapor Pressure |
| | Odor | Little to none. | Vapor Density |
| | Odor Threshold | No data available. | Relative Density |
| | pH | No data available. | Solubility |
| | | | No data available. |
| | | | No data available. |
| | | | No data available. |
| | | | No data available. |

| | | | | |
|------------|---|--------------------|----------------------------------|--------------------|
| | Melting / Freezing Point | No data available. | Partition Coefficient | No data available. |
| | Boiling Point / Range | No data available. | Auto ignition Temperature | No data available. |
| | Flash Point | No data available. | Decomposition Temperature | No data available. |
| | Evaporation Rate | No data available. | Viscosity | No data available. |
| | Flammability (Solid, Gas) | No data available. | Explosive Properties | No data available. |
| | Upper / Lower Flammability or Explosive Limits | No data available. | Oxidizing Properties | No data available. |
| 9.2 | Other safety information | No data available. | | |

10. STABILITY AND REACTIVITY

| | | | | |
|-------------|---|---|--|--|
| 10.1 | Reactivity | Stable under recommended transport or storage conditions. | | |
| 10.2 | Chemical stability | Stable under recommended storage conditions. | | |
| 10.3 | Possibility of hazardous reactions | Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below. | | |
| 10.4 | Conditions to avoid | Heat, moisture. | | |
| 10.5 | Incompatible materials | Strong acids/alkalis, strong oxidizing/reducing agents. | | |
| 10.6 | Hazardous decomposition products | Strong acids/alkalis, strong oxidizing/reducing agents. | | |

11. TOXICOLOGICAL INFORMATION

| | | | | |
|-------------|---|-------------------------------------|--|--|
| 11.1 | Information on toxicological effects | | | |
| | Acute Toxicity | Classified based on available data. | | |
| | Skin Corrosion/Irritation | Classified based on available data. | | |
| | Serious Eye Damage / Irritation | Classified based on available data. | | |
| | Respiratory or Skin Sensitization | Classified based on available data. | | |
| | Germ Cell Mutagenicity | Classified based on available data. | | |
| | Carcinogenicity | Classified based on available data. | | |
| | Reproductive Toxicity | Classified based on available data. | | |
| | Specific Target Organ Toxicity – Single Exposure | Classified based on available data. | | |
| | Specific Target Organ Toxicity – Repeated Exposure | Classified based on available data. | | |
| | Aspiration Hazard | Classified based on available data. | | |
| | Symptoms / Routes of Exposure | | | |
| | Inhalation: | No known symptoms. | | |
| | Ingestion: | No known symptoms. | | |
| | Skin: | No known symptoms. | | |
| | Eyes: | No known symptoms. | | |
| | Delayed/Immediate Effects: | No known symptoms. | | |
| | Additional Information | | | |
| | | Classified based on available data | | |

12. ECOLOGICAL INFORMATION

| | | | | |
|-------------|--------------------------------------|--------------------|--|--|
| 12.1 | Toxicity | No data available. | | |
| 12.2 | Persistence and degradability | No data available. | | |

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

14.7 Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

Product Name: Detection Antibody

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: For research use only.

1.3 Details of the supplier of the safety data sheet

| | | | |
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

2.2 Label Elements

This product does not need to be labeled in accordance with Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

2.3 Other Hazards - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Consult a doctor and show this safety data sheet.

If Inhaled

Remove to fresh air and monitor breathing.

In Case of Skin Contact

Wash skin with soap and water. If irritation occurs, consult a doctor.

In Case of Eye Contact

Flush with water for at least 15 minutes. If irritation occurs, consult a doctor.

If Swallowed

Rinse mouth with water. Consult a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3

Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5.

FIRE-FIGHTING MEASURES

5.1

Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2

Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

5.3

Precautions for fire-fighters

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

6.

ACCIDENTAL RELEASE MEASURES

6.1

Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

6.2

Environmental precautions

Do not let product enter drains.

6.3

Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4

Reference to other sections

For required PPE see section 8. For disposal see section 13.

7.

HANDLING AND STORAGE

7.1

Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2

Conditions for safe storage, including any incompatibilities

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

7.3

Specific end uses

Not applicable.

8.

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

Control parameters

Components with workplace and control parameters

Contains no substances with occupational exposure limit values.

8.2

Exposure controls

Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

8.3

Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

Skin Protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

9.

PHYSICAL AND CHEMICAL PROPERTIES

9.1

Information on basic physical and chemical properties

| | | | |
|---------------------------|--|---------------------------|--------------------|
| Appearance | Lyophilized white powder or clear liquid | Vapor Pressure | No data available. |
| Odor | Little to none. | Vapor Density | No data available. |
| Odor Threshold | No data available. | Relative Density | No data available. |
| pH | No data available. | Solubility | No data available. |
| Melting / Freezing Point | No data available. | Partition Coefficient | No data available. |
| Boiling Point / Range | No data available. | Auto ignition Temperature | No data available. |
| Flash Point | No data available. | Decomposition Temperature | No data available. |
| Evaporation Rate | No data available. | Viscosity | No data available. |
| Flammability (Solid, Gas) | No data available. | Explosive Properties | No data available. |

| | | | | |
|-------------|--|--------------------|-----------------------------|--------------------|
| | Upper / Lower Flammability or Explosive Limits | No data available. | Oxidizing Properties | No data available. |
| 9.2 | Other safety information No data available. | | | |
| 10. | STABILITY AND REACTIVITY | | | |
| 10.1 | Reactivity Stable under recommended transport or storage conditions. | | | |
| 10.2 | Chemical stability Stable under recommended storage conditions. | | | |
| 10.3 | Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below. | | | |
| 10.4 | Conditions to avoid Heat, moisture. | | | |
| 10.5 | Incompatible materials Strong acids/alkalis, strong oxidizing/reducing agents. | | | |
| 10.6 | Hazardous decomposition products Strong acids/alkalis, strong oxidizing/reducing agents. | | | |
| 11. | TOXICOLOGICAL INFORMATION | | | |
| 11.1 | Information on toxicological effects | | | |
| | Acute Toxicity Classified based on available data. | | | |
| | Skin Corrosion/Irritation Classified based on available data. | | | |
| | Serious Eye Damage / Irritation Classified based on available data. | | | |
| | Respiratory or Skin Sensitization Classified based on available data. | | | |
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| | Reproductive Toxicity Classified based on available data. | | | |
| | Specific Target Organ Toxicity – Single Exposure Classified based on available data. | | | |
| | Specific Target Organ Toxicity – Repeated Exposure Classified based on available data. | | | |
| | Aspiration Hazard Classified based on available data. | | | |
| | Symptoms / Routes of Exposure Inhalation: No known symptoms. Ingestion: No known symptoms. Skin: No known symptoms. Eyes: No known symptoms. Delayed/Immediate Effects: No known symptoms. | | | |
| | Additional Information Classified based on available data | | | |
| 12. | ECOLOGICAL INFORMATION | | | |
| 12.1 | Toxicity No data available. | | | |
| 12.2 | Persistence and degradability No data available. | | | |
| 12.3 | Bio accumulative potential No data available. | | | |
| 12.4 | Mobility in soil No data available. | | | |
| 12.5 | Results of PBT and vPvB assessment No data available. | | | |

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

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15.2 Chemical safety assessment

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Product Name: Standard (contains Proclin 300 Mixture = 0.005%)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: For research use only.

1.3 Details of the supplier of the safety data sheet

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|-----------------|---|----------------|---------------------------------|
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2. HAZARDS IDENTIFICATION

2.1 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

2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

Pictogram(s):



Signal Word: Warning

Hazard Statement(s):

H317 May cause an allergic skin reaction.

Precautionary Statement(s):

| | |
|-----------|--|
| 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+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333+P317 | If skin irritation or rash occurs: Get medical help. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |

2.3 Other Hazards - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

| Component | CAS No. | EC No. | Index No. | Classification | Concentration |
|---|------------|------------|--------------|----------------|---------------|
| Mixture of 5-Chloro-2-Methyl-4- Isothiazolin-3-One and 2-Methyl-2H-Isothiazolin-3-One (3:1) | 55965-84-9 | 9114-418-6 | 613-167-00-5 | H317 | = 0.005% |

4. FIRST AID MEASURES

| | |
|-----|--|
| 4.1 | Description of first aid measures General Advice Consult a doctor and show this safety data sheet. If Inhaled Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor. In Case of Skin Contact Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor. In Case of Eye Contact Flush with copious amounts of water for at least 15 minutes. Consult a doctor. If Swallowed Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor. |
| 4.2 | Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. |
| 4.3 | Indication of immediate medical attention and special treatment needed Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| 5. | FIRE-FIGHTING MEASURES |
| 5.1 | Extinguishing Media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| 5.2 | Special hazards arising from the substance or mixture In combustion, may emit toxic fumes. |
| 5.3 | Precautions for fire-fighters Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus. |
| 6. | ACCIDENTAL RELEASE MEASURES |
| 6.1 | Personal precautions, protective equipment and emergency procedures Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas. |
| 6.2 | Environmental precautions Do not let product enter drains. |
| 6.3 | Methods and materials for containment and cleaning up Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS. |
| 6.4 | Reference to other sections For required PPE see section 8. For disposal see section 13. |
| 7. | HANDLING AND STORAGE |
| 7.1 | Precautions for safe handling Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure. |
| 7.2 | Conditions for safe storage, including any incompatibilities Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. |
| 7.3 | Specific end uses Not applicable. |
| 8. | EXPOSURE CONTROLS/PERSONAL PROTECTION |
| 8.1 | Control parameters Components with workplace and control parameters Contains no substances with occupational exposure limit values. |
| 8.2 | Exposure controls Appropriate Engineering Controls Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. |
| 8.3 | Personal Protective Equipment Eye / Face Protection Use appropriate safety glasses. Skin Protection Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling. Body Protection Wear appropriate protective clothing. |

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | | | |
|---|--------------------|----------------------------------|--------------------|
| Appearance | Clear liquid | Vapor Pressure | No data available. |
| Odor | Little to none | Vapor Density | No data available. |
| Odor Threshold | No data available. | Relative Density | No data available. |
| pH | No data available. | Solubility | No data available. |
| Melting / Freezing Point | No data available. | Partition Coefficient | No data available. |
| Boiling Point / Range | No data available. | Auto ignition Temperature | No data available. |
| Flash Point | No data available. | Decomposition Temperature | No data available. |
| Evaporation Rate | No data available. | Viscosity | No data available. |
| Flammability (Solid, Gas) | No data available. | Explosive Properties | No data available. |
| Upper / Lower Flammability or Explosive Limits | No data available. | Oxidizing Properties | No data available. |

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat, moisture.

10.5 Incompatible materials

Strong acids/alkalis, strong oxidizing/reducing agents.

10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidizing/reducing agents.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Classified based on available data.

Skin Corrosion/Irritation

Classified based on available data.

Serious Eye Damage / Irritation

Classified based on available data.

Respiratory or Skin Sensitization

Classified based on available data.

Germ Cell Mutagenicity

Classified based on available data.

Carcinogenicity

Classified based on available data.

Reproductive Toxicity

Classified based on available data.

Specific Target Organ Toxicity – Single Exposure

Classified based on available data.

Specific Target Organ Toxicity – Repeated Exposure

Classified based on available data.

Aspiration Hazard

Classified based on available data.

Symptoms / Routes of Exposure

| | |
|----------------------------|---|
| Inhalation: | There may be irritation of the throat with a feeling of tightness in the chest. |
| Ingestion: | There may be irritation of the throat. |
| Skin: | There may be mild irritation at the site of contact. |
| Eyes: | There may be irritation and redness. |
| Delayed/Immediate Effects: | No known symptoms. |

Additional Information

Classified based on available data

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

14.7 Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for

experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

Product Name: Streptavidin-HRP (contains Proclin 300 Mixture = 0.005%)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: For research use only.

1.3 Details of the supplier of the safety data sheet

| | | | |
|-----------------|--------------------------------------|----------------|---------------------------------|
| Company: | R&D Systems, Inc. a Bio-Techne Brand | Telephone: | 1-800-343-7475 |
| | 614 McKinley Place NE | Fax: | 1-612-656-4400 |
| | Minneapolis, MN 55413, USA | Internet: | www.rndsystems.com |
| | | Email address: | info@bio-techne.com |
| Canada: | 21 Canmotor Ave | Telephone: | 1-855-668-8722 |
| | Toronto, ON M8Z 4E6 | Fax: | 902-827-6402 |
| | | Email address: | Canada.inquiries@bio-techne.com |
| United Kingdom: | 19 Barton Lane | Telephone: | 44 (0)1235 529449 |
| | Abingdon Science Park | Fax: | 44 (0)1235 533420 |
| | Abingdon, OX14 3NB | Email address: | info.emea@bio-techne.com |
| China: | 1193 Changning Road | Telephone: | 86-400-821-3475 |
| | Unit 1901, Raffles Changning Office | Fax: | 76 (021) 52371001 |
| | Shanghai, China | Email address: | techsupport.cn@bio-techne.com |

1.4 Emergency Telephone Number

For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within U.S. 1-800-262-8200 Worldwide 1-703-741-5500

Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

2. HAZARDS IDENTIFICATION

2.1 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

2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

Pictogram(s):



Signal Word: Warning

Hazard Statement(s):

H317 May cause an allergic skin reaction.

Precautionary Statement(s):

| | |
|-----------|--|
| 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+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333+P317 | If skin irritation or rash occurs: Get medical help. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |

2.3 Other Hazards - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

| Component | CAS No. | EC No. | Index No. | Classification | Concentration |
|---|------------|------------|--------------|----------------|---------------|
| Mixture of 5-Chloro-2-Methyl-4- Isothiazolin-3-One and 2-Methyl-2H-Isothiazolin-3-One (3:1) | 55965-84-9 | 9114-418-6 | 613-167-00-5 | H317 | =0.005% |

| | |
|------------|--|
| 4. | FIRST AID MEASURES |
| 4.1 | Description of first aid measures General Advice Consult a doctor and show this safety data sheet. If Inhaled Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor. In Case of Skin Contact Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor. In Case of Eye Contact Flush with copious amounts of water for at least 15 minutes. Consult a doctor. If Swallowed Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor. |
| 4.2 | Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. |
| 4.3 | Indication of immediate medical attention and special treatment needed Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| 5. | FIRE-FIGHTING MEASURES |
| 5.1 | Extinguishing Media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| 5.2 | Special hazards arising from the substance or mixture In combustion, may emit toxic fumes. |
| 5.3 | Precautions for fire-fighters Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus. |
| 6. | ACCIDENTAL RELEASE MEASURES |
| 6.1 | Personal precautions, protective equipment and emergency procedures Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas. |
| 6.2 | Environmental precautions Do not let product enter drains. |
| 6.3 | Methods and materials for containment and cleaning up Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS. |
| 6.4 | Reference to other sections For required PPE see section 8. For disposal see section 13. |
| 7. | HANDLING AND STORAGE |
| 7.1 | Precautions for safe handling Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure. |
| 7.2 | Conditions for safe storage, including any incompatibilities Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. |
| 7.3 | Specific end uses Not applicable. |
| 8. | EXPOSURE CONTROLS/PERSONAL PROTECTION |
| 8.1 | Control parameters Components with workplace and control parameters Contains no substances with occupational exposure limit values. |
| 8.2 | Exposure controls Appropriate Engineering Controls Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. |
| 8.3 | Personal Protective Equipment Eye / Face Protection Use appropriate safety glasses. |

Skin Protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

| | | | |
|---|--------------------|----------------------------------|--------------------|
| Appearance | Clear liquid | Vapor Pressure | No data available. |
| Odor | Little to none | Vapor Density | No data available. |
| Odor Threshold | No data available. | Relative Density | No data available. |
| pH | No data available. | Solubility | No data available. |
| Melting / Freezing Point | No data available. | Partition Coefficient | No data available. |
| Boiling Point / Range | No data available. | Auto ignition Temperature | No data available. |
| Flash Point | No data available. | Decomposition Temperature | No data available. |
| Evaporation Rate | No data available. | Viscosity | No data available. |
| Flammability (Solid, Gas) | No data available. | Explosive Properties | No data available. |
| Upper / Lower Flammability or Explosive Limits | No data available. | Oxidizing Properties | No data available. |

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat, moisture.

10.5 Incompatible materials

Strong acids/alkalis, strong oxidizing/reducing agents.

10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidizing/reducing agents.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute Toxicity**

Classified based on available data.

Skin Corrosion/Irritation

Classified based on available data.

Serious Eye Damage / Irritation

Classified based on available data.

Respiratory or Skin Sensitization

Classified based on available data.

Germ Cell Mutagenicity

Classified based on available data.

Carcinogenicity

Classified based on available data.

Reproductive Toxicity

Classified based on available data.

Specific Target Organ Toxicity – Single Exposure

Classified based on available data.

Specific Target Organ Toxicity – Repeated Exposure

Classified based on available data.

Aspiration Hazard

Classified based on available data.

Symptoms / Routes of Exposure

| | |
|----------------------------|---|
| Inhalation: | There may be irritation of the throat with a feeling of tightness in the chest. |
| Ingestion: | There may be irritation of the throat. |
| Skin: | There may be mild irritation at the site of contact. |
| Eyes: | There may be irritation and redness. |
| Delayed/Immediate Effects: | No known symptoms. |

Additional Information

Classified based on available data

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

14.7 Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet.