

COLLAGENASE TYPE IV

EFFECTIVE DATE: 2015-07-06

1 Product and Company Identification

- 1.1 Product Name: Collagenase Type IV
- **1.2 Catalog Number:** 07909
- 1.3 Product Use: Cell Culture
- 1.4 Manufacturer/Supplier:
 STEMCELL Technologies

 Suite 500-1618 Station Street
 Vancouver, British Columbia V6A 1B6 Canada
- 1.5 In Case of Emergency Call: 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards No data available

3 Composition / Information on Ingredients

3.1 Mixtures

No components need to be disclosed according to the applicable regulations.

4 First Aid Measures

4.1 Description of first aid measures

4.1.1 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

4.1.2 In case of skin contact

Wash off with soap and plenty of water.

4.1.3 In case of eye contact

Flush eyes with water as a precaution.

4.1.4 If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Scientists Helping Scientists



Safety Data Sheet

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5 Fire Fighting Measures

5.1 Extinguishing Media

5.1.1 Suitable Extinguishing Media

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

5.1.2 Unsuitable Extinguishing Media

No data available

5.2 Special hazards arising from the substance or mixture

5.2.1 Flammable Properties and Hazards

No data available

5.2.2 Flash Pt

No data available

- 5.2.3 Autoignition Pt No data available
- 5.2.4 Explosive Limits LEL: No data available

UEL: No data available

5.2.5 Hazardous Combustion Products No data available

5.3 Fire Fighting Instructions

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

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

7 Handling and Storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

8 Exposure Controls/Personal Protection



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8.1 Exposure limits

Contains no substances with occupational exposure limit values.

8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

8.3 Personal protective equipment

8.3.1 Eye/face protection

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

8.3.2 Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.3.3 Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3.4 General hygiene considerations

General industrial hygiene practice.

8.3.5 Environmental exposure controls

No data available

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| Appearance | Clear, red liquid |
|--|-------------------------|
| Odour | No data available |
| Odour threshold | No data available |
| рН | Approximately 7.2 - 7.4 |
| Melting point/freezing point | No data available |
| Boiling point/boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | No data available |
| Solubility | No data available |





| | | Safety Data Sheet | | | | |
|----------|---------------------------------------|--------------------------------|---|--|--|--|
| | OLLAGENASE TYPE IV | | EFFECTIVE DATE: 2015-07- | | | |
| | Partition coe | efficient: n-octanol/water | No data available | | | |
| | Auto-ignitior | n temperature | No data available | | | |
| | Decomposit | ion temperature | No data available | | | |
| | Viscosity | | No data available | | | |
| 10 Stab | oility and Re | eactivity | | | | |
| 10.1 | Reactivity | | No data available | | | |
| 10.2 | Chemical s | tability | No data available | | | |
| 10.3 | Possibility | of hazardous reactions | No data available | | | |
| | Conditions | | No data available | | | |
| _ | Incompatib | | No data available | | | |
| | - | decomposition products | No data available | | | |
| 10.0 | Tiazai uous | | | | | |
| 11 Toxi | cological Ir | nformation | | | | |
| 11.1 | Acute toxic | ity | | | | |
| | Oral: | No data available | | | | |
| | Inhalation: | No data available | | | | |
| | Dermal: | No data available | | | | |
| | Other: | No data available | | | | |
| 11.2 | .2 Skin corrosion/irritation | | | | | |
| | No data available | | | | | |
| 11.3 | Serious eye damage/eye irritation | | | | | |
| - | No data available | | | | | |
| 11.4 | Respiratory and/or skin sensitization | | | | | |
| | No data available | | | | | |
| 11.5 | 1.5 Germ cell mutagenicity | | | | | |
| | No data available | | | | | |
| 11.6 | Carcinogenicity | | | | | |
| | IARC: | No component of this produc | ct presents at levels greater than or equal to 0.1% i ble or confirmed human carcinogen by IARC. | | | |
| | ACGIH: | | ct presents at levels greater than or equal to 0.1% i potential carcinogen by ACGIH. | | | |
| | NTP: | No component of this produc | ct presents at levels greater than or equal to 0.1% | | | |
| | | identified as a known or anti- | cipated carcinogen by NTP. | | | |
| | OSHA: | | ct presents at levels greater than or equal to 0.1% | | | |
| . | | 5 | potential carcinogen by OSHA. | | | |
| 11.7 | Reproducti | ve toxicity | | | | |

No data available

11.8 Specific target organ toxicity - single exposure

No data available



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11.9 Specific target organ toxicity - repeated exposure

No data available

11.10 Aspiration hazard

No data available

11.11 Potential health effects

- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed.
- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- Eyes: May cause eye irritation.

11.12 Signs and symptoms of exposure

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

11.13 RTECS # No data available

12 Ecological Information

| 12.1 | Toxicity | No data available |
|------|-------------------------------|-------------------|
| 12.2 | Persistence and degradability | No data available |
| 12.3 | Bioaccumulative potential | No data available |
| 12.4 | Mobility in soil | No data available |
| 12.5 | Other adverse effects | No data available |

13 Disposal Considerations

13.1 Waste disposal method

Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

| 14.1 UN number | No data available | |
|---------------------------------|--|--|
| 14.2 UN proper shipping name | DOTNot dangerous goodsADR/RIDNot dangerous goodsIMDGNot dangerous goodsIATANot dangerous goods | |
| 14.3 Transport hazard class(es) | No data available | |
| 14.4 Packing group | No data available | |
| 14.5 Environmental hazards | No data available | |
| 14.6 Special precautions | No data available | |



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15 Regulatory Information

15.1 USA

No data available

15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

15.3 Canada

Not WHMIS controlled

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16 Other Information

- 16.1 Prepared by: Quality Control, STEMCELL Technologies Inc.
- 16.2 Revision: N/A
- **16.3 Notice:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.

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