

Product identifier



SAFETY DATA SHEET

07912 - Collagenase/Hyaluronidase

Revision Date 11-Oct-2022 Revision Number 2.1

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

Product identifier	
Product Name	Collagenase/Hyaluronidase
Other means of identification	
Catalog Number	07912
Document Number	DX20989
Synonyms	None
Recommended use of the chemica	l and restrictions on use
Recommended Use	Laboratory reagent
Details of the supplier of the safety	v data sheet
Manufacturer/Supplier STEMCELL Technologies Canada In Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B	
Emergency telephone number	
Emergency Telephone	1-800-667-0322
	2. HAZARDS IDENTIFICATION
Classification	
This chemical is considered hazardou	us by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Respiratory sensitization	Category 1
Hazards not otherwise classified (I Not applicable	<u>INOC)</u>
Label elements	
Danger	
Hazard statements	





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May cause allergy or asthma symptoms or breathing difficulties if inhaled



Physical state Liquid

Odor No data available

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray In case of inadequate ventilation wear respiratory protection

Precautionary statements - Response

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

Not applicable

Unknown acute toxicity

1.047E-05 % of the mixture consists of ingredient(s) of unknown toxicity 1.047E-05 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.047E-05 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

1.047E-05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

1.047E-05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

1.047E-05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Collagenase	9001-12-1	0.1 - 1*

*The exact percentage (concentration) of composition has been withheld as a trade secret.





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	4. FIRST AID MEASURES	
Description of first aid measures		
General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.	
Ingestion	May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives.	
Indication of any immediate medica	al attention and special treatment needed	
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.	





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Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for
fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout
gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective ed	quipment and emergency procedures	
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so.	
Methods and material for containment and cleaning up		
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.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

7. HANDLING AND STORAGE

 Precautions for safe handling
 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

 Conditions for safe storage, including any incompatibilities

Storage ConditionsStore in accordance with information listed on the Product Information Sheet (PIS). Store
locked up. Keep out of the reach of children.





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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

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The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation avatama

Ventilation systems.

Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).

Hand protection	Wear suitable gloves.
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Skin and body protection Wear suitable protective clothing.

- **Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
- **General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical propertiesPhysical stateLiquidAppearanceClearColorredOdorNo data availableOdor thresholdNo data available





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Property pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature **Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties**

Other Information Softening point Molecular weight Molecular formula VOC Content (%) Liquid Density **Bulk density**

Values No data available No data available

No data available

No data available

No data available

No data available

No data available

No data available

No data available

No data available

No information available No information available No information available No information available No information available No information available No information available

Remarks • Method

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None known None known None known None known None known None known None known

None known None known None known None known None known None known None known None known None known None known

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under recommended transport or storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION





of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

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Information on likely routes of exposure

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Inhalation	Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components).	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).	
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling	

Numerical measures of toxicity

Acute toxicity

Unknown acute toxicity 1.047E-05 % of the mixture consists of ingredient(s) of unknown toxicity

Coughing and/ or wheezing.

1.047E-05 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.047E-05 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

1.047E-05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

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1.047E-05 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Product Information

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Product Information	No information available.
Serious eye damage/eye irritation	No information available.
Product Information	
Respiratory or skin sensitization Product Information	May cause sensitization by inhalation.
Germ cell mutagenicity Product Information	No information available.



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Carcinogenicity No information available. Reproductive toxicity No information available. Product Information STOT - single exposure No information available. **Product Information** STOT - repeated exposure No information available. **Product Information** Aspiration hazard No information available. **12. ECOLOGICAL INFORMATION** Ecotoxicity **Product Information** Persistence and degradability No information available. **Bioaccumulation** There is no data for this product. No information available. Other adverse effects **13. DISPOSAL CONSIDERATIONS** Waste treatment methods Dispose of in accordance with local regulations. Dispose of waste in accordance with Waste from residues/unused environmental legislation. products **Contaminated packaging** Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT

Not regulated





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TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No





No

No

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Sudden release of pressure hazard	
Reactive Hazard	

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By,

Quality Control. STEMCELL Technologies Canada Inc.

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Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any





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damage resulting from handling or from contact with the product.

End of Safety Data Sheet