



07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

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

Product identifier		
Product Name	CellAdhere™ Type I Collagen, Bovine, Solution	
Other means of identification		
Catalog Number	07001	
Document Number	DX21467	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended Use	Laboratory reagent	
STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485. PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.		
Details of the supplier of the safety data sheet		

Manufacturer/Supplier

STEMCELL Technologies Canada Inc. Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B6 Canada

Emergency telephone number

Emergency Telephone

1-800-667-0322

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

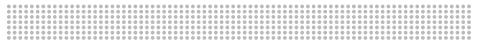
Not applicable

Label elements

Hazard statements

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





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Clear

Physical state Liquid

Odor No information available

Other Information Not applicable

Not applicable

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

<u>Mixture</u>

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

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

4. FIRST AID MEASURES

Description of first aid measures

Remove to fresh air.	
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Wash skin with soap and water.	
Clean mouth with water and drink afterwards plenty of water.	





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 **Revision Number** 2

Most important symptoms and effe	cts, both acute and delayed	
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	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	No information available.	
Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
6. ACCIDENTAL RELEASE MEASURES		

0. AUGIDENTAL KELEAJE IVIEAJUKI

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions **Environmental precautions** See Section 12 for additional Ecological Information. 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.





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.		
8. EXP	OSURE 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.		
Appropriate engineering controls			
Engineering controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, su	ch as personal protective equipment		
Eye/face protection	No special protective equipment required.		
Skin and body protection	No special protective equipment required.		
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	Handle in accordance with good industrial hygiene and safety practice.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Physical state





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

Appearance Color Odor Odor threshold

Property_	Values
pH	1.9 - 2.1
Melting point / freezing point	No data av
Boiling point / boiling range	No data av
Flash point	No data av
Evaporation rate	No data av
Flammability (solid, gas)	No data av
Flammability Limit in Air	
Upper flammability limit:	No data av
Lower flammability limit:	No data av
Vapor pressure	No data av
Vapor density	No data av
Relative density	No data av
Water solubility	No data av
Solubility in other solvents	No data av
Partition coefficient	No data av
Autoignition temperature	No data av
Decomposition temperature	No data av
Kinematic viscosity	No data av
Dynamic viscosity	No data av
Explosive properties	No informa
Oxidizing properties	No informa
Other Information	
Other Information	No informa
Softening point	No informa
Molecular weight	No inform

Molecular weight Molecular formula VOC Content (%) Liquid Density Bulk density Clear No information available No information available No information available

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

Remarks • Method

None known None known None known None known None known

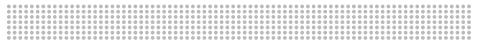
None known None known None known None known None known None known None known None known

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal 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.





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information			
Inhalation	Specific test data for the substance or mixture is not available.		
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.		
Ingestion	Specific test data for the substance or mixture is not available.		
Symptoms related to the physical,	Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	No information available.		
Numerical measures of toxicity			
Acute toxicity			
 Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) 			
Skin corrosion/irritation	No information available.		
Serious eye damage/eye irritation	No information available.		
Respiratory or skin sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Persistence and degradability	No information available.
Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

ADR Not regulated

ADN

Not regulated

	15. REGULATORY INFORMATION
International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

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	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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





07001 - CellAdhere™ Type I Collagen, Bovine, Solution

Revision Date 29-Aug-2017 Revision Number 2

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 7732-18-5	-	-	Х
Hydrochloric acid 7647-01-0	Х	Х	Х

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.

Revision Date 29-Aug-2017

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 damage resulting from handling or from contact with the product.

End of Safety Data Sheet