

07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

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

Product identifier

Product Name Collagenase A, ACF

Other means of identification

Catalog Number 07434 07435

Document Number DX21355

Synonym Clostridium histolyticum collagenase; Collagenase A

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory reagent

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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

### Hazards not otherwise classified (HNOC)

Not applicable

Label elements



# 07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

Danger

#### Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation



Appearance Powder Physical state Solid

Odor No data available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling In case of inadequate ventilation wear respiratory protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Wear protective gloves/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of water and soap

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

If experiencing respiratory symptoms: Call a POISON CENTER or doctor

IF INHALED: Remove person to fresh air and keep comfortable for breathing

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Other Information

Not Applicable

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

the services of ingredient(s) of the mixture consists and toxicity

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

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)



# 07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Synonym Clostridium histolyticum collagenase; Collagenase A.

Chemical name	CAS No.	Weight-%
Clostridiopeptidase A	9001-12-1	100

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention. Remove to fresh air.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a

physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion May produce an allergic reaction. Get immediate medical advice/attention. Clean mouth

with water and drink afterwards plenty of water. Never give anything by mouth to an

unconscious person. Do NOT induce vomiting.

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 direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as

required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or

wheezing. Itching. Rashes. Hives. Burning sensation.



07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

Indication of any immediate medical attention and special treatment needed

**Note to physicians**May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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.

**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

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Ensure

adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective

equipment as required.

**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.



07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Provide extract ventilation to points where emissions occur. Remove contaminated clothing

and shoes. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory

equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep out of the reach of children. Store in accordance with information

listed on the Product Information Sheet (PIS).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Limits**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 systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear

safety glasses with side-shields.

**Hand protection** Impervious gloves. Wear suitable gloves.

**Skin and body protection** Long sleeved clothing. 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.



07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

General hygiene considerations

Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid Appearance Powder

Color No information available

Odor No data available
Odor threshold No data available

Property Values Remarks • Method

No data available None known pН No data available Melting point / freezing point None known Boiling point / boiling range No data available None known Flash point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit: No data available
Lower flammability limit: No data available
Vapor pressure No data available

None known Vapor density No data available None known No data available Relative density None known Water solubility No data available None known Solubility in other solvents No data available None known No data available None known **Partition coefficient** No data available None known **Autoignition temperature Decomposition temperature** No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

**Explosive properties** No data available

Oxidizing properties No information available

Other Information

Softening point
Molecular weight
Molecular formula
VOC Content (%)
Liquid Density
No information available

# 10. STABILITY AND REACTIVITY



# 07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

**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** Strong acids. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

Inhalation May cause sensitization in susceptible persons. (based on components). Specific test data

for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact Irritating to eyes. Specific test data for the substance or mixture is not available. Causes

serious eye irritation. (based on components).

**Skin contact** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Causes skin irritation. (based on components). Specific test data for the substance or

mixture is not available.

**Ingestion** May cause additional affects as listed under "Inhalation". Specific test data for the

substance or mixture is not available. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Redness. May cause redness and tearing of the eyes.

#### 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

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity



# 07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

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

Skin corrosion/irritation Product Information	Classification based on data available for ingredients. Irritating to skin.		
Serious eye damage/eye irritation Product Information	Classification based on data available for ingredients. Irritating to eyes.		
Respiratory or skin sensitization Product Information	May cause sensitization by inhalation.		
Germ cell mutagenicity Product Information	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.  Product Information		
STOT - single exposure	May cause respiratory irritation.  Product Information		
STOT - repeated exposure	No information available.  Product Information		
Aspiration hazard	No information available.		
12. ECOLOGICAL INFORMATION			
Ecotoxicity	The environmental impact of this product has not been fully investigated.  Product Information		
Persistence and degradability	No information available.		
Bioaccumulation	There is no data for this product.		
Other adverse effects	No information available.		

<sup>100 %</sup> of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

<sup>0 %</sup> of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) Product Information



07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

# 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 Not regulated IATA IMDG Not regulated RID Not regulated ADR Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

ENCSDoes not complyIECSCCompliesKECLDoes not complyPICCSDoes not complyAICSDoes not comply

Legend:

ADN

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

Not regulated



# 07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

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
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 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

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable



07434 07435 - Collagenase A, ACF

Revision Date 08-Dec-2023 Revision Number 2.1

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

Prepared By, Quality Control. STEMCELL Technologies Canada Inc.

Revision Date 08-Dec-2023

**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**