



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

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

### Product identifier

**Product Name** Dispase, ACF

### Other means of identification

**Catalog Number** 07446 100-0396

**Document Number** 10000007958

**Synonyms** Neutral protease; Proteinase

### 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



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 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 information available

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 In case of inadequate ventilation wear respiratory protection  
 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**

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

- 100 % 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)



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

**Synonyms** Neutral protease;. Proteinase.

| Chemical name                         | CAS No.    | Weight-% |
|---------------------------------------|------------|----------|
| Proteinase, Bacillus Polymyxa neutral | 42613-33-2 | 100      |

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

## 4. FIRST AID MEASURES

### Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | 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.  |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.  |
| <b>Skin contact</b>                       | 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.   |
| <b>Ingestion</b>                          | 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.  |
| <b>Self-protection of the first aider</b> | 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 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.

### Indication of any immediate medical attention and special treatment needed



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

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

## 5. FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable extinguishing media</b>                 | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Specific hazards arising from the chemical</b>     | Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.                                       |
| <b>Explosion data</b>                                 |  |
| <b>Sensitivity to Mechanical Impact</b>               | None.  |
| <b>Sensitivity to Static Discharge</b>                | None.  |
| <b>Special protective equipment for fire-fighters</b> | 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

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | 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. |
| <b>Other Information</b>    | Refer to protective measures listed in Sections 7 and 8.   |

### Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. |
|----------------------------------|---|

### Methods and material for containment and cleaning up

|  |  |
|--|--|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Pick up and transfer to properly labeled containers.                                 |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

## 7. HANDLING AND STORAGE



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

## Precautions for safe handling

### **Advice on 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. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

## Conditions for safe storage, including any incompatibilities

### **Storage Conditions**

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

## 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**

Wear suitable gloves. Impervious gloves.

#### **Skin and body protection**

Wear suitable protective clothing. Long sleeved 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.



# SAFETY DATA SHEET

Revision Date 26-May-2020

Revision Number 1

07446 100-0396 - Dispase, ACF

**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 properties

**Physical state** Solid  
**Appearance** Powder  
**Color** No information available  
**Odor** No information available  
**Odor threshold** No information available

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | No data available        | None known              |
| Melting point / freezing point | No data available        | 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              |
| Relative density               | No data available        | None known              |
| Water solubility               | No data available        | None known              |
| Solubility in other solvents   | No data available        | None known              |
| Partition coefficient          | No data available        | None known              |
| Autoignition temperature       | No data available        | None known              |
| Decomposition temperature      | No data available        | None known              |
| Kinematic viscosity            | No data available        | None known              |
| Dynamic viscosity              | No data available        | None known              |
| Explosive properties           | No information available |                         |
| Oxidizing properties           | No information available |                         |

### Other Information

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

## 10. STABILITY AND REACTIVITY

**Reactivity** No information available.



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

|   |   |
|---|---|
| <b>Chemical stability</b>                 | Stable under normal conditions.           |
| <b>Possibility of hazardous reactions</b> | None under normal processing.             |
| <b>Conditions to avoid</b>                | None known based on information supplied. |
| <b>Incompatible materials</b>             | Strong acids. Strong oxidizing agents.    |
| <b>Hazardous decomposition products</b>   | None known based on information supplied. |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract.                          |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.  |
| <b>Skin contact</b> | 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). Causes skin irritation.   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | 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

|                               |   |
|-------------------------------|---|
| <b>Unknown acute toxicity</b> | 100 % of the mixture consists of ingredient(s) of unknown toxicity                          |
|                               | 100 % 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) |



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Irritating to skin. |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Irritating to eyes. |
| <b>Respiratory or skin sensitization</b> | May cause sensitization by inhalation.                                      |
| <b>Germ cell mutagenicity</b>            | No information available.   |
| <b>Carcinogenicity</b>                   | No information available.   |
| <b>Reproductive toxicity</b>             | No information available.   |
| <b>STOT - single exposure</b>            | May cause respiratory irritation.   |
| <b>STOT - repeated exposure</b>          | No information available.   |
| <b>Aspiration hazard</b>                 | No information available.   |

## 12. ECOLOGICAL INFORMATION

|                                      |   |
|--------------------------------------|---|
| <b>Ecotoxicity</b>                   | The environmental impact of this product has not been fully investigated. |
| <b>Persistence and degradability</b> | No information available.   |
| <b>Bioaccumulation</b>               | There is no data for this product.  |
| <b>Other adverse effects</b>         | No information available.   |

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |





# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

## 14. TRANSPORT INFORMATION

|                   |               |
|-------------------|---------------|
| <u>DOT</u>        | Not regulated |
| <u>TDG</u>        | Not regulated |
| <u>MEX</u>        | Not regulated |
| <u>ICAO (air)</u> | Not regulated |
| <u>IATA</u>       | Not regulated |
| <u>IMDG</u>       | Not regulated |
| <u>RID</u>        | Not regulated |
| <u>ADR</u>        | Not regulated |
| <u>ADN</u>        | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Does not comply |
| <b>DSL/NDSL</b>      | Does not comply |
| <b>EINECS/ELINCS</b> | Complies        |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Does not comply |
| <b>KECL</b>          | Does not comply |
| <b>PICCS</b>         | Does not comply |
| <b>AICS</b>          | 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.



# SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

## 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

**US State Regulations** This product does not contain any substances regulated by state right-to-know regulations

## 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** 26-May-2020

**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



## SAFETY DATA SHEET

07446 100-0396 - Dispase, ACF

Revision Date 26-May-2020

Revision Number 1

---

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**