

## 1 Identification

- **Product identifier**
- **Trade name:** Casein Hydrolysate, Vitamin Free, Salt free
- **Article number:** 104778
- **EC number:**  
293-428-4
- **Molecular Formula** N/A
- **Molecular Weight** N/A g/mol
- **Application of the substance / the mixture** For Research Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
United States  
www.mpbio.com
- **Information department:** Quality Control Department
- **Emergency telephone number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2 Hazard Identification

- **Classification of the substance or mixture**  
The substance is not classified, according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

## 3 Composition/Information on ingredients

- **Chemical characterization:** Substances
- **CAS No. Description**  
Casein Hydrolysate
- **Identification number(s)**
- **EC number:** 293-428-4
- **Additional information:** CAS: N/A      Casein Hydrolysate      90 - 100%

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 07/24/2018

Reviewed on 07/24/2018

**Trade name: Casein Hydrolysate, Vitamin Free, Salt free**

(Contd. of page 1)

### 4 First-aid Measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Flush eyes with running water as a precaution.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.  
For personal protection see section 8.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special requirements.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:** 15 - 30°C
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Further information about storage conditions:**
- **Specific end use(s)** No further relevant information available.

### 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see Section 7.

(Contd. on page 3)

CA

# Safety Data Sheet

acc. to OSHA HCS

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**Trade name: Casein Hydrolysate, Vitamin Free, Salt free**

(Contd. of page 2)

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
  
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

## 9 Physical and Chemical Properties

- |  |                           |
|--|---------------------------|
| · <b>Information on basic physical and chemical properties</b> |                           |
| · <b>General Information</b>                                   |                           |
| · <b>Appearance:</b>   |                           |
| Form:  | Powder                    |
| Color:   | Cream colored             |
| · <b>Odor:</b>   | Indeterminate             |
| · <b>Odor threshold:</b>                                       | Not determined.           |
| · <b>pH-value:</b>   | Not applicable.           |
| · <b>Change in condition</b>                                   |                           |
| Boiling point/Boiling range:                                   | Undetermined.             |
| · <b>Flash point:</b>  | Not applicable.           |
| · <b>Flammability (solid, gaseous):</b>                        | Product is not flammable. |
| · <b>Decomposition temperature:</b>                            | Not determined.           |
| · <b>Auto igniting:</b>  | Not determined.           |
| · <b>Danger of explosion:</b>                                  | See section 10            |
| · <b>Explosion limits:</b>                                     |                           |
| Lower:   | Not Applicable            |
| Upper:   | Not Applicable            |
| · <b>Vapor pressure:</b>                                       | Not applicable.           |
| · <b>Density:</b>  | Not Applicable            |
| · <b>Relative density</b>                                      | Not determined.           |
| · <b>Vapor density</b>   | Not applicable.           |
| · <b>Evaporation rate</b>                                      | Not applicable.           |

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

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**Trade name: Casein Hydrolysate, Vitamin Free, Salt free**

(Contd. of page 3)

- |   |   |
|---|---|
| <b>· Solubility in / Miscibility with Water:</b>  | <i>Not Determined</i><br><i>Easily soluble.</i>   |
| <b>· Partition coefficient (n-octanol/water):</b> | <i>Not determined.</i>                            |
| <b>· Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | <i>Not applicable.</i>                            |
| <b>Kinematic:</b>                                 | <i>Not applicable.</i>                            |
| <b>· Solids content:</b>                          | <i>100.0 %</i>                                    |
| <b>· Other information</b>                        | <i>No further relevant information available.</i> |

## 10 Stability and Reactivity

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:** *Based on available data, the classification criteria are not met.*
- **Primary irritant effect:**
- **on the skin:** *No irritant effect.*
- **on the eye:** *Irritant and potentially harmful*
- **Sensitization:** *No sensitizing effects known.*
- **Additional toxicological information:**  
*When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.*  
*The substance is not subject to classification.*
- **Carcinogenic categories**

<b>· IARC (International Agency for Research on Cancer)</b>
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<i>Substance is not listed.</i>
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<b>· NTP (National Toxicology Program)</b>
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<i>Substance is not listed.</i>
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## 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behavior in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*

(Contd. on page 5)

CA

# Safety Data Sheet

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Reviewed on 07/24/2018

**Trade name: Casein Hydrolysate, Vitamin Free, Salt free**

(Contd. of page 4)

- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Can not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Discard must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleaning agents.

### 14 Transport Information

· <b>UN-Number</b>	
· <b>DOT, TDG, ADN, IMDG, IATA</b>	Not regulated
· <b>UN proper shipping name</b>	
· <b>DOT, TDG, ADN, IMDG, IATA</b>	Not regulated
· <b>Transport hazard class(es)</b>	
· <b>DOT, TDG, ADN, IMDG, IATA</b>	
· <b>Class</b>	Not regulated
· <b>Packing group</b>	
· <b>DOT, TDG, IMDG, IATA</b>	Not regulated
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Not regulated

### 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

Substance is not listed.

- **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

(Contd. on page 6)

# Safety Data Sheet

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(Contd. of page 5)

· **TSCA (Toxic Substances Control Act):**

Substance is not listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

Substance is not listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other Information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing SDS:** Quality Control Dept.

· **Date of the latest revision of the safety data sheet** 07/24/2018 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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