



Safety Data Sheet

Issuing Date 2020-04-08

Revision Date 2020-04-08

Version 3

1. IDENTIFICATION

Product Identifier

Product Name Human Brain Cerebellum Protein Medley

Other means of identification

Product Code 635326
UN/ID no UN3287
Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses For research use only. Not for use in diagnostic procedures.
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier USA:
Takara Bio USA, Inc.
1290 Terra Bella Avenue
Mountain View, CA 94043
Phone: 800.662.2566/888.251.6618
Web: www.takarabio.com

Emergency telephone number In case of emergency, call PERS (Professional Emergency Resource Services) 1-800-633-8253 (US) or 801-629-0667 (international).

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Label elements

Emergency Overview

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

Appearance Blue

Physical State Liquid

Odor Characteristic

Precautionary Statements - Prevention

• Not applicable

Precautionary Statements - Response

Not applicable.

Precautionary Statements - Storage

Not applicable.

Precautionary Statements - Disposal

Not applicable.

Hazards not otherwise classified (HNOC)

Not applicable

Other information

May be harmful if swallowed. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

27.9355 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

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

4. FIRST AID MEASURES

Description of first aid measures

| | |
|-----------------------|---|
| General advice | In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash off immediately with plenty of water for at least 15 minutes. |
| Inhalation | Move to fresh air. |
| Ingestion | Never give anything by mouth to an unconscious person, If symptoms persist, call a physician, Not an expected route of exposure |

Most important symptoms and effects, both acute and delayed

| | |
|----------------------|---------------------------|
| Main Symptoms | No information available. |
|----------------------|---------------------------|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to physician | 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

Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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 Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing, Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Respiratory protection None required under normal usage.

Hygiene measures When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------|-----------------------|--------------------------|
| Physical State | Liquid | Odor | Characteristic |
| Appearance | Blue | Odor Threshold | No information available |
| Color | Blue | | |

| <u>Property</u> | <u>Values</u> |
|---|----------------------------|
| pH VALUE | No information available |
| Melting point / freezing point | No information available / |
| Boiling point/boiling range (°C) | No information available |
| Flash point | No information available |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Relative density | No information available |
| Water Solubility | Not applicable |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | No information available |
| Explosive properties | No information available |
| Oxidizing Properties | No information available |

Other information

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular Weight | No information available |
| VOC Content (%) | No information available |
| Density VALUE | No information available |
| Bulk Density | No information available |

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

| | |
|---------------------------------|--|
| Hazardous Reactions | None under normal processing. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

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

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Information on toxicological effects

Symptoms No information available.

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

Sensitization No information available.
mutagenic effects No information available.
Carcinogenicity No information available.

Reproductive toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Target Organ Effects No information available.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 4,090.00 mg/kg
ATEmix (dermal) 7,643.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

11 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

| | |
|--|--|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| Special Provisions | IB2, T11, TP2, TP27 |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II |
| Emergency Response Guide Number | 151 |

TDG

| | |
|-----------------------------|--|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| Special Provisions | 16 |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II, Marine Pollutant |

MEX

| | |
|-----------------------------|--|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Special Provisions | 274 |
| Packing group | II |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II |

ICAO

| | |
|-----------------------------|--|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| Special Provisions | A3, A4, A137 |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II |

ICAO/IATA

| | |
|-----------------------------|--|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| ERG Code | 6L |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II |

IMDG/IMO

| | |
|-----------------------------|--|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| EmS-No | F-A, S-A |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II, Marine Pollutant |

RID

| | |
|-----------------------------|---|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| Classification code | T4 |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II, ENVIRONMENTALLY HAZARDOUS |

ADR/RID

| | |
|--------------------------------|---|
| UN/ID no | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| Classification code | T4 |
| Tunnel restriction code | D/E |
| Special Provisions | 274 |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II, ENVIRONMENTALLY HAZARDOUS |
| ADR/RID-Labels | 6.1 |

ADN

| | |
|-----------------------------|---|
| UN Number | UN3287 |
| Proper Shipping Name | Toxic liquid, inorganic, n.o.s. |
| Hazard Class | 6.1 |
| Packing group | II |
| Classification code | T4 |
| Special Provisions | 274, 802 |
| Description | UN3287, Toxic liquid, inorganic, n.o.s. (Glycerol, Protein Medley Tissue), 6.1, II, ENVIRONMENTALLY HAZARDOUS |
| Hazard Labels | 6.1 |
| Limited quantity | 100 ml |
| Ventilation | VE02 |

| |
|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

| | |
|----------------------------------|-----------------------|
| International Inventories | For research use only |
| TSCA | - |
| DSL/NDSL | - |
| EINECS/ELINCS | - |
| ENCS | - |
| IECSC | - |
| KECL | - |
| PICCS | - |
| AICS | - |

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 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

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|------------------------------|------------|---------------|--------------|
| Glycerol 56-81-5 | X | X | X |
| 2-Mercaptoethanol 60-24-2 | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

| | | | | |
|-------------|------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 0 | Flammability 0 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 0 | Flammability 0 | Physical Hazard 0 | Personal protection X |

Issuing Date 2020-04-08
Revision Date 2020-04-08
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.

Notice to Purchaser:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval. Your use of this product is also subject to compliance with the licensing requirements described on the product's web page. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements. All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions.

End of Safety Data Sheet