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Version 5

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Shrimp Alkaline Phosphatase

### Other means of identification

**Product Code** ST0840  
**Registration number** 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**

Japan:  
Takara Bio Inc.  
Nojihigashi 7-4-38  
Kusatsu, Shiga 525-0058, Japan  
Phone: +81.77.565.6972  
Web: www.takara-bio.com

China:  
Takara Biomedical Technology (Beijing) Co., Ltd.  
Life Science Park, 22 KeXueYuan Road, Changping District,  
Beijing 102206, China  
Phone: +86 10 8072 0980  
Web: www.takara.com.cn

Korea:  
Takara Korea Biomedical Inc.  
601, New T Castle, 108, Gasan Digital 2-ro, Geumcheon-gu  
Seoul 08506, Korea  
Phone: +82 2 2081 2525  
Web: www.takara.co.kr

### Emergency telephone number

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

## Section 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

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

### Label elements

**Signal Word**  
None

**Hazard Statements****Precautionary Statements - Prevention**

Not applicable.

**Precautionary Statements - Response**

• Not applicable

**Precautionary Statements - Storage**

Not applicable.

**Precautionary Statements - Disposal**

Not applicable

**Other information**

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

**Hazards not otherwise classified (HNOC)** Not applicable**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****Substance / Mixture**

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

**Section 4: FIRST AID MEASURES**

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

**Section 5: FIRE FIGHTING MEASURES**

<b>Flammable Properties</b>	May cause fire.
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	No information available.
<b>Specific hazards arising from the chemical</b>	Keep product and empty container away from heat and sources of ignition.
<b>Special Extinguishing Media</b>	Cool drums with water spray.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	For personal protection see section 8.
<b>Environmental precautions</b>	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

## Section 7: HANDLING AND STORAGE

### Handling

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

### Storage

**Technical measures/Storage conditions**      Keep container tightly closed in a dry and well-ventilated place.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**      This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Other information**      These recommendations apply to the product as supplied.

**Engineering Measures**      Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

**Respiratory protection**      None under normal use conditions.

**Hand Protection**      Latex gloves.

**Eye/Face Protection**      Tightly fitting safety goggles.

**Skin and body protection**      Wear suitable protective equipment. Boots.

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

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	Clear, colorless	<b>Odor Threshold</b>	No information available
<b>Color</b>	Clear		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
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**pH VALUE**      No information available

**Melting point / freezing point**      No information available /

No information available

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

**Other information**

<b>VOC Content (%)</b>	No information available
<b>Bulk Density</b>	No information available

**Section 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	No dangerous reaction known under conditions of normal use.
<b>Stability</b>	Stable under normal conditions.
<b>Explosion Data</b>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	None under normal use conditions.

**Section 11: TOXICOLOGICAL INFORMATION****Acute toxicity****Numerical measures of toxicity - Product Information****Unknown acute toxicity**

- 1.4955 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 1.4955 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 64.5955 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 64.5955 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 64.5955 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

<b>ATEmix (oral)</b>	19,968.00 mg/kg
<b>ATEmix (dermal)</b>	15,864.00 mg/kg
<b>ATEmix (inhalation-gas)</b>	No information available
<b>ATEmix (inhalation-dust/mist)</b>	No information available

ATEmix (inhalation-vapor) No information available

**Numerical measures of toxicity - Component Information**

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

**Skin corrosion/irritation** No information available.

**Serious Eye Damage/Eye Irritation** No information available.

**Sensitization** No information available.

**mutagenic effects** No information available.

**Reproductive toxicity** No information available.

**STOT - Single Exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Neurological effects** No information available.

**Target Organ Effects** No information available.

**Aspiration Hazard** No information available.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

1.79835 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Waste from Residues / Unused Products** Dispose of as hazardous waste in compliance with local and national regulations.

**Contaminated packaging** Dispose of in accordance with local regulations.

**Section 14: TRANSPORT INFORMATION**

**IMDG/IMO** Not regulated

**ICAO** Not regulated

**ADR/RID** Not regulated

ICAO/IATA Not regulated

Japan

## Section 15: REGULATORY INFORMATION

International Inventories For research use only

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	Complies
<b>KECL</b>	-
<b>PICCS</b>	-
<b>AICS</b>	-

### 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

## Section 16: OTHER INFORMATION

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**Revision Note** No information available.

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

- No information available

### **Disclaimer**

This SDS complies with the requirements of JIS Z 7252:2014 and JIS Z 7253:2012 (Japan). 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.

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**End of Safety Data Sheet**