



M. S. D. S (Proteoglycan) Date of issue: 18-Mar-2022

**1. Identification of The Substance and The Company**

[Product]

Substance : Salmon nasal cartilage extract  
(containing undenatured type II collagen and undenatured proteoglycan)

[Supplier of the safety data sheet]

Manufacturer

Address : Japan

Contact personnel :

Address : Japan

Phone :

FAX :

**2. Hazards Identification**

GHS classification: Not applicable

Physical and chemical hazards: None in particular

Health hazards: None in particular

Environment hazards: None in particular

**3. Composition and Information on Ingredients**

Undenatured type II collagen	≥40%	Automatic amino acid analyzer Differential scanning calorimetry
Undenatured proteoglycan	≥40%	HPLC Carbazole-sulfuric acid method
Moisture	≤10%	Loss on drying test
Others (including Ash)		

## SAFETY DATA SHEET

### 4. First-aid Measures

- If inhaled: Because this product is harmless, special measures are unnecessary. However, get medical advice as needed if any symptoms appear.
- If on skin: Because this product is harmless, special measures are unnecessary. However, as needed, wipe off and get medical advice if any symptoms appear.
- If in eyes: Because this product is harmless, special measures are unnecessary. However, as needed, rinse with running water and get medical advice if any symptoms appear.
- If swallowed: Because this product is harmless, special measures are unnecessary. However, get medical advice as needed if any symptoms appear.

### 5. Fire-fighting Measures

- Suitable extinguishing media: The same as typical fire (water mist, dry powder, CO<sub>2</sub>, dry sand, etc.)
- Banned extinguishing media: None in particular

### 6. Accidental Release Measures

- Personnel precautions: This product is basically harmless. However, ventilate properly and avoid inhale and contact because powder dispersion might happen.
- Environmental precautions: This product is basically harmless. However, pay attention not to flow out into sewage or rivers directly.
- Methods and equipment for collection: Put goggles, mask, etc. on to avoid contact to a large amount of powder, vacuum up or sweep to collect, and wipe up remains. If it becomes moistened, remove with waste cloth, etc.

### 7. Handling and Storage

- Precautions for safe handling: Avoid handling with wet equipment and hands owing to high moisture absorbency.
- Conditions for safe storage: Store in a cool and dark place, away from heat and moisture.

## SAFETY DATA SHEET

### 8. Exposure Controls and Personal Protection

[Exposure controls]

Exposure limits: Not established

Tolerable level of biological parameters, etc.: Not established

Facilities for reducing as much of exposure as possible: Install facilities for wash the eyes, hands, body.

[Protection]

Appropriate protective equipment: This product is basically harmless. However, put mask, goggles, gloves, etc. on to avoid contact to a large amount of powder.

### 9. Physical and Chemical Properties

Appearance: White or lemon-yellow powder

Odor: Slightly unique odor

Freezing point, Boiling point, Melting point, Initial boiling point, Boiling range: No available data

Ignition point, Spontaneous ignition temperature: No available data

Lower and upper flammability limit/explosion limit: No available data

Vapor pressure, Relative vapor density: No available data

Density (relative density): No available data

Solubility: Hardly soluble in water, insoluble in alcohol, etc.

### 10. Stability and Reactivity

Condition to avoid: This is stable under the normal handling condition. However, avoid moisture, otherwise it may become swelling and hardening with water because of its high moisture absorbency. Also avoid high temperature, because proteins in the substance may denature.

Incompatible materials: None

Hazardous decomposition products: None

## SAFETY DATA SHEET

### 11. Toxicological Information

Acute toxicity: The single oral dose toxicity is very low as over 2,000 mg/kg of estimated minimum lethal dose in the study in rats.

Skin corrosion and irritation: No available data

Serious eye damage/irritation: No available data

Respiratory/Skin sensitization: No available data

Germline mutagenicity: No available data

Carcinogenicity: No available data

Reproductive toxicity: No available data

Specific target organ toxicity - single exposure: No available data

Specific target organ toxicity - repeat exposure: No available data

Aspiration respiratory toxicity: No available data

### 12. Ecological Information

Ecotoxicity: No available data

Persistence and degradability: No available data

Bioaccumulation potential: No available data

Mobility in soil: No available data

Ozone depleting chemical: No available data

### 13. Disposal considerations

Safe and environmentally desirable disposal method: According to methods specified by local governments such as incineration.

Proper treatment methods for package: According to methods specified by local governments (the package is a moisture-proof aluminum bag).

### 14. Transport Information

Code and class according to international regulations for transport:

This product does not fall into hazardous materials being subject to regulations.

## SAFETY DATA SHEET

### 15. Regulatory Information

This product is used for food, thus does not require submission of SDS according to Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof or GHS, and no regulations concerning hazardous materials are applied. However, follow the laws and regulations with regard to handling food and sanitation.

### 16. Other Information

The first version: January 2012

Revised: March 2022

The contents in the SDS was made based on our research, however, described data and evaluation results do not always ensure safety thoroughly. Because unknown hazards may exist in any products, close attention is necessary for handling. Please establish safe conditions for use under your responsibility. In addition, the above-mentioned precautions, etc. are described for normal handling. If this product is used in unusual way, take a safety measure suitable for its usage and application before use.