

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Product code** AMS.CSR-NAKS2-PNC-1, AMS.CSR-NAKS2-PNC-3**Product name** Sodium Keratan Sulfate (Nasal Cartilage)**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses of the product: Research use only

1.3 Details of the supplier of the safety data sheet**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Not applicable to GHS classification

2.2 Label elements

No Pictograms

No Signal word

Not a hazardous mixture according to the Globally Harmonized System (GHS)

SECTION 3: Composition/information on ingredients**Substance/Mixture:****3.1 Substance**

Chemical name	Content (%)	CAS RN®
Sodium Keratan Sulfate	100	9056-36-4

SECTION 4: First aid measures**4.1 Descriptions of first-aid measures****IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN

Remove contaminated clothes and shoes, rinse skin with water or shower.

If irritation occurs, consult a physician.

IF IN EYES

Remove any contact lenses at once. Rinse eyes well with flooding amounts of running water. If symptoms persist, consult a physician.

IF SWALLOWED

Rinse mouth. Never give anything by mouth to an unconscious person.

Consult a physician.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media

Water spray, dry chemical, foam and carbon dioxide

5.2 Specific hazards

Take care of irritating and toxic gases and vapors generated by thermal decomposition.

5.3 Advice for firefighters

Special protective equipment and precautions for fire-fighters

Use personal protective equipment as required.

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SECTION 6: Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Use personal protective equipment.

6.2 Environmental precautions

Prevent spills product from entering drains.

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container. Do not touch spilled material without suitable protection. Wash the spill site and ventilate the area.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Safety Measures/Incompatibility

Use with local exhaust ventilation.

Wash hands et al thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Recommendation for storage

Protected from light and moisture, and store below 4°C.

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Adopted value

No ACGIH values available

8.2 Exposure controls

Appropriate engineering controls

Showers, Eyewash stations.

Individual protection measures

Respiratory protection

Wear a dust mask.

Hand protection

Wear protective gloves.

Eye protection

Wear safety glasses.

Skin and body protection

Wear protective clothing.

Safety and Health measures

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical properties

Appearance : powder (lyophilizate)

Color : white

Odor : oderless

pH : data N.A.

Phase change temperature

Initial Boiling Point/Boiling point data N.A.

Boiling range data N.A.

Melting point/Freezing point data N.A.

Decomposition temperature data N.A.

Flash point data N.A.

Auto-ignition temperature data N.A.

Vapor pressure data N.A.

Vapor density data N.A.

Specific gravity/Density data N.A.

Solubility in water : Soluble

n-Octanol /water partition coefficient data N.A.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Light, heat and moisture

10.5 Incompatible materials

Strong oxidizing agents and strong reducing agents

10.6 Hazardous decomposition products

No information available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation data is not available.

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Teratogenic effects data is not available.

Reproductive toxicity data is not available.

STOT

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

SECTION 12: Ecological information

12.1 Ecotoxicity

Ecotoxicity data is not available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.6 Other adverse effects

Ozone depleting chemical data is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

SECTION 14: Transport information

Not Restricted

14.1 UN No. (Air): Not dangerous goods

14.2 UN Proper Shipping Name: N/A

14.3 Class or Division: N/A

14.4 Packing Group: N/A

14.5 Marine Pollutant: N/A

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Japanese regulations : Not applicable

SECTION 16: Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It is advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

End of Safety Data Sheet

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