



## Material Safety Data Sheet

### Section 1 - Identification of the material and supplier

#### 1.1 Product identifier

Product name Sodium Hyaluronate  
CAS No. 9067-32-7

#### 1.2 Details of the supplier of the safety data sheet

Manufacturer: Shandong Focusfreda Biotech Co., Ltd  
Address: Add: New Economic Development Zone of High Speed Rail, Qufu, Jining, Shandong, China  
Telephone: 400 090 5566  
Fax: +86 537 3195599  
E-Mail: sales@focusfreda.com

#### 1.3 Emergency telephone number

Emergency response service: 400 090 5566

### Section 2 - Hazards identification

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP].  
This substance is not classified as dangerous according to Directive 67/548/EEC.

#### 2.2 GHS label elements, including precautionary statements

Pictogram (s): No symbol  
Signal word: No signal word  
Hazard statement(s): none  
Precautionary statement(s)  
Prevention: none  
Response: none  
Storage: none  
Disposal: none

#### 2.3 Other hazards - none

### Section 3 - Composition/information on ingredients

#### 3.1 Substances

Synonyms: Poly( $\beta$ -glucuronic acid-[1 $\rightarrow$ 3]- $\beta$ -N-acetylglucosamine-[1 $\rightarrow$ 4]), alternating  
Formula  $(C_{14}H_{20}NNaO_{11})_n$

Component	Concentration
Sodium Hyaluronate	$\geq 95\%$
CAS-No.	9067-32-7
EINECS-No.	618-620-0

#### 3.2 Mixtures

Not Relevant



## Section 4 -First-aid measures

### 4.1 Description of first aid measures

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Main symptoms and effects, acute and delayed effects

To the best of our knowledge, this chemical, physical and toxic nature has not been fully investigated.

### 4.3 Instructions and instructions for timely medical treatment and special treatment required

no data available

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media/ Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Combustion forms carbon oxides, namely carbon dioxide and carbon monoxide.

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

## Section 6 - Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

### 6.2 Environmental precautions

When the product leaks, collect spills and clean it to restore the environment. Collect and treat the collected leaks as general waste.

### 6.3 Methods and materials for containment and cleaning up

Adsorbed with sand or other non-combustible adsorbent, collected in a container and processed.

### 6.4 Reference to other sections

For disposal see section 13.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage, including any incompatibilities

$M_r \leq 1.40$ MDa: Store in tight, light-resistant, cool and dark place

$M_r > 1.40$ MDa: Store in tight, light-resistant place, the temperature is below 10°C

### 7.3 Specific end uses

no data available

## Section 8 - Exposure Controls / Personal Protection



### 8.1 Allowable concentration

Maximum allowable concentration: no data available

### 8.2 Exposure controls/Appropriate engineering controls

General industrial hygiene practice.

### 8.3 Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9 - Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	white or almost white very hygroscopic
Odour Threshold	no data available
pH	5.0~8.5
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	Soluble in water

### 9.2 Other safety information

no data available



## Section 10 - Stability and Reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

It is stable under normal storage and operating conditions such as room temperature or airtight containers, and is easily degraded into small molecules under high temperature, acidic or alkaline environments.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Avoid exposure to sunlight, avoid contact with open flames and high heat; do not store in the same place as toxic, harmful, odorous, volatile, and corrosive items.

### 10.5 Incompatible materials

Avoid mixing with substances that are prone to decomposition and denaturation, such as strong oxidizing agents, strong reducing agents, cationic surfactants, strong acids, and strong alkalis.

### 10.6 Hazardous decomposition products

Other decomposition products - no data available.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

No acute toxicity

### 11.2 Skin irritation or corrosion

No skin irritation or corrosion

### 11.3 Eye irritation or corrosion

No eye irritation

### 11.4 Respiratory tract or skin allergies

No skin sensitization, may be uncomfortable if inhaled

### 11.5 Germ cell mutagenicity

No germ cell toxicity

### 11.6 Carcinogenicity

Not carcinogenic.

### 11.7 Reproductive toxicity

No reproductive toxicity

### 11.8 Specific target organ toxicity - single exposure

no data available

### 11.9 Aspiration hazard

The product is highly hygroscopic and may cause respiratory discomfort

### 11.10 Additional Information

RTECS: Not available

## Section 12 - Ecological Information

### 12.1 Toxicity



No ecological toxicity, degradable in nature

**12.2 Persistence and degradability**

Can be degraded and decomposed by microorganisms

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

### Section 13 - Disposal Considerations

**13.1 Nature of waste**

Industrial waste: yes; hazardous waste: not

**13.2 Waste disposal methods**

No special treatment, incineration or burial as required.

**13.3 Waste disposal precautions**

According to local and national regulations, the specific treatment methods can be consulted with the local environmental protection department.

### Section 14 - Transport Information

**14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4 Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

no data available

### Section 15 - Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

**15.2 Chemical Safety Assessment**



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no data available

## Section 16 - Other Information

### Further information:

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

- End of Material Safety Data Sheet-