



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 08-Feb-2023 Revision Number 1.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hyaluronic Acid Sodium Salt
Product Code	083-10341,089-10343
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome
	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only

### Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture Germ cell mutagenicity Reproductive Toxicity

Category 1B Category 1A

Pictograms



Danger

#### Hazard statements

- H340 May cause genetic defects
- H360 May damage fertility or the unborn child

#### **Precautionary statements-(Prevention)**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- Precautionary statements-(Response)
  - IF exposed or concerned: Get medical advice/attention
- Precautionary statements-(Storage)

Store locked up

### Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

#### Others Other hazards

Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Hyaluronic Acid Sodium Salt	=<100	N/A	N/A	11-(2)-211	9067-32-7
Ethanol	1	46.07	(2)-202	*	64-17-5
Note on ISHL No.: * in the table means announced chemical substances.					

Note on ISHL No.:

Ethanol: < 1.0 %

#### Impurities and/or Additives: Source

Fermentation using Streptococcus zooepidemicus

# Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### Protection of first-aiders

Use personal protective equipment as required.

### Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

#### No information available

#### Special protective actions for

#### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

### No information available

### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

### Handling

#### Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

#### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

# <u>Storage</u>

Safe storage conditions Storage conditions Safe packaging material Incompatible substances

Store away from sunlight in a cool (2-10 °C) well-ventilated dry place. Glass Strong oxidizing agents

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

#### Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Ethanol	N/A	N/A	STEL: 1000 ppm
64-17-5			

#### Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Form

Color Appearance	White - slightly yellow crystals - powder or granules
Odor	no data available
Melting point/freezing point	no data available
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature: pH	no data available 6.0 - 7.0(1 g/L, 25 °C)
Viscosity (coefficient of viscosity)	no data available

Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available water : soluble . no data available no data available no data available no data available no data available

# Section 10: STABILITY AND REACTIVITY

#### Stability

Reactivity	no data available
Chemical stability	Stable under recommended storage conditions.
Hazardous reactions	
None under normal processing	
Conditions to avoid	
Extremes of temperature and dire	ect sunlight
Incompatible materials	-
Strong oxidizing agents	
Hazardous decomposition product	S
	dioxide (CO2), Nitrogen oxides (NOx)

# Section 11: TOXICOLOGICAL INFORMATION

About a data of Ethanol is described.

#### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hyaluronic Acid Sodium Salt	> 800 mg/kg (Rat)	N/A	N/A
Ethanol	6200 mg/kg(Rat)	20000 mg/kg ( Rabbit )	63000 ppmV ( Rat ) 4 h

Chemical Name	Acute toxicity -oral- source information	information	Acute toxicity -inhalation gas- source information
Ethanol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor-source information	source information	source information
Ethanol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

#### Skin irritation/corrosion

Chemical Name		Skin corrosion/irritation source information			
Ethanol	Ethanol Based on the NITE GHS classification results.			ts.	
Serious eye damage/ irritation					
Chemical Name		Serious eye damage/irritation source information			
Ethanol	E	Based on the NITE GH	IS classification resul	ts.	
Respiratory or skin sensitization					
Chemical Name Respiratory or Skin sensitization source in			Irce information		
Ethanol Based on the NITE GHS classificati			IS classification resul	ts.	
Reproductive cell mutagenicity					
Chemical Name		germ cell m	utagencity source in	nformation	
Ethanol	E	Based on the NITE GHS classification results.			
Carcinogenicity					
Chemical Name		Carcinogenicity source information			
Ethanol		Based on the NITE GHS classification results.			
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)	
Ethanol	Known	Group 1	A3	-	

64-17-5	
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Ethanol	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Ethanol	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Ethanol	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Ethanol	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

About a data of Ethanol is described.

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethanol	EC50 : Chlorella alga	LC50 : Oncorhychus mykiss	EC50 : Daphnia magna
	1000 mg/L 96 h	11200 ppm 96 h	5463 mg/L 48 h

### Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Ethanol	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available
Mobility	

# Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	Not regulated - Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -

Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable No information available
the IBC Code	
ΙΑΤΑ	Not regulated
UN number	-
Proper shipping name:	
UN classfication	
Subsidiary hazard class	
Packing group	
Environmentally Hazardous	Not applicable
Substance	

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed -
Japanese regulations Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	tHarmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.61
Regulations for the carriage and storage of dangerous goods in ship	Not applicable
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer Register Law	Not applicable
(~2023.3.31) <u>Pollutant Release and Transfer</u> <u>Register Law</u>	Not applicable
(2023/4/1~) Export Trade Control Order	Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Ethanol 64-17-5(1)	-	Applicable	-

# Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
	Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc

### Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

End of Safety Data Sheet