

### **SECTION 1: PRODUCT IDENTIFICATION**

PRODUCT NAME CHONDROITIN SULFATE SODIUM, USP (Bovine)

PRODUCT CODE 0890

SUPPLIER MEDISCA Inc.

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EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

### **SECTION 2: HAZARDS IDENTIFICATION**

GHS CLASSIFICATION Eye Irritation (Category 2B)

PICTOGRAM Not Applicable
SIGNAL WORD Warning

HAZARD STATEMENT(S) Causes eye irritation.

ADVERSE PHYSIOCHEMICAL, HUMAN Not applicable

HEALTH AND ENVIRONMENTAL

EFFECTS

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PRECAUTIONARY STATEMENT(S) Prevention Wash hands thoroughly after handling. Do not touch eyes.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists, get medical help.

Storage Not applicable

Disposal Not applicable

HMIS CLASSIFICATION Health Hazard 1 Flammability 0

Reactivity 0 Personal Protection A



### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL NAME** Chondroitin Sulfate Sodium

**BOTANICAL NAME** Not applicable

**SYNONYM** Chondroitin, hydrogen sulfate, sodium salt

CHEMICAL FORMULA (C14H19NO14SNa2)n

Sulfated linear mucopolysaccharide CHEMICAL FAMILY

**CAS NUMBER** 9082-07-9 ALTERNATE CAS NUMBER Not applicable

MOLECULAR WEIGHT Not applicable

COMPOSITION **CHEMICAL NAME** CAS NUMBER **EC NUMBER % BY WEIGHT** CHONDROITIN SULFATE SODIUM 9082-07-9 618-658-8

> There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

### **SECTION 4: FIRST-AID MEASURES**

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

IN CASE OF SKIN CONTACT Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician.

MEDICAL ATTENTION AND SPECIAL

**TREATMENT** 

Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE Not expected to present a significant hazard under anticipated conditions of normal use.

### SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

HAZARDOUS COMBUSTION PRODUCTS

SUITABLE & UNSUITABLE **EXTINGUISHING MEDIA** 

Last Revision: 02/2023

FLAMMABLE PROPERTIES

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS Not applicable

May be combustible at high temperature

Under fire conditions, hazardous fumes will be present.

Small fire: dry chemical, CO<sub>2</sub> or water spray. Large fire: dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**



PERSONAL PRECAUTIONS

 $We ar \ respiratory \ protection. \ A void \ dust \ formation. \ A void \ breathing \ vapours, \ mist \ or \ gas. \ Ensure \ adequate$ 

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT

On land, sweep or shovel into suitable containers. Minimize generation of dust.

**CLEANUP PROCEDURE** 

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash

thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use

appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in

accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid

environmental contamination.

STORAGE CONDITIONS Store in original container, tightly sealed, protected from direct sunlight and moisture.

### **SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

#### Chemical Name: CHONDROITIN SULFATE SODIUM CAS #: 9082-07-9

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed; N/A = Not Available

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PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

**EXPOSURE GUIDELINES**Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3



PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

> eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

**BIOLOGICAL MONITORING** Not available **CONTROL BANDING** Not available

**NOTES** Occupational exposure limits: Organic dust, total 3 mg/m³

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE Solid

DESCRIPTION White or off-white powder. Is extremely hygroscopic once dried.

SOLUBILITY Freely soluble in water, practically insoluble in acetone and in ethanol (96 per cent).

ODOR Odorless or slightly characteristic

FLAMMABILITY	May be combustible at high temperature									
AUTO-IGNITION TEMPERATURE	Not available	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	Not available					
EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available					
log P (OCTANOL-WATER)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	Not available					
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	рН	5.5 - 7.5 (1%)					
RELATIVE DENSITY (WATER = 1)	0.3 - 2.0 g/mL	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available					
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	Not available	VISCOSITY	Not available					

The physical data presented above are typical values and should not be construed as a specification.

### **SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY Not established

**CHEMICAL STABILITY** Stable under recommended storage conditions

**INCOMPATIBLE MATERIALS** Strong oxidants

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HAZARDOUS DECOMPOSITION

**PRODUCTS** 

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

HAZARDOUS POLYMERIZATION

Will not occur

POSSIBLITY OF HAZARDOUS

Not established

REACTION

REACTION

CONDITIONS TO AVOID

Moisture, sunlight and extreme temperatures

### **SECTION 11: TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY Oral: Rat: LD50: (mg/kg): > 10 000

Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Based on available data, the classification criteria are not met.

Primary skin irritancy test. Result: Non-irritant. Species: Rabbit. Organ: Skin

SERIOUS EYE DAMAGE/EYE Causes eye irritation.

IRRITATION

Draize test result: Irritant. Species: Rabbit. Organ: Eye. Severity: Slight.

**RESPIRATORY SENSITIZATION**Due to lack of data the classification is not possible.

SKIN SENSITIZATION Due to lack of data the classification is not possible.

GERM CELL MUTAGENICITY Based on available data, the classification criteria are not met.

Chromosomal aberration assay in Chinese hamster fibroblast cell lines; Result: Negative.

S. typhimurium assay (with and without activation); Result: Negative.

CARCINOGENICITY OSHA CHONDROITIN SULFATE SODIUM is not listed.

NTP CHONDROITIN SULFATE SODIUM is not listed.

IARC CHONDROITIN SULFATE SODIUM is not evaluated.

California This product does not contain any chemicals known to the State of California to cause

**Proposition 65** cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY

INFORMATION

Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY

Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

Due to lack of data the classification is not possible.

**ASPIRATION HAZARDS** 

Based on available data, the classification criteria are not met.

SIGNS AND SYMPTOMS OF

**EXPOSURE** 

ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

POTENTIAL HEALTH EFFECTS Inhalation May be harmful if inhaled. May cause irritation to mucous membranes and respiratory tract.

Ingestion May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.



Eyes

Causes eye irritation.

### **SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICITY** EC50: 48 Hr: Crustacea: (mg/L): Not available

LC50: 96 Hr: Fish: (mg/L): Not available

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

PERSISTENCE AND DEGRADABILITY Not available Not available **BIOACCUMULATIVE POTENTIAL** 

Soluble in water. MOBILITY IN SOIL OTHER ADVERSE EFFECTS Not available

This product is not intended to be released into the environment.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS** Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

### **SECTION 14: TRANSPORT INFORMATION**

**UN PROPER SHIPPING NAME** Not dangerous good **UN NUMBER** Not applicable

CLASS Not applicable **PACKING GROUP** Not applicable

**AUSTRALIA** 

**HAZCHEM** Not Applicable

<u>EU</u>

TRANSPORT IN BULK ACCORDING TO

ANNEX II OF MARPOL 73/78 AND THE

**IBC CODE** 

Not Listed

**ENVIRONMENTAL HAZARDS** Not available SPECIAL SHIPPING INFORMATION Not applicable

### **SECTION 15: REGULATORY INFORMATION**

#### UNITED STATES REGULATIONS

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Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355 Appendix A Appendix B		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
CHONDROITIN SULFATE SODIUM 9082-07-9	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L



N/L = Not Listed; X = Listed

#### **AUSTRALIAN REGULATIONS**

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
CHONDROITIN SULFATE SODIUM 9082-07-9	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

#### **EU REGULATIONS**

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
CHONDROITIN SULFATE SODIUM 9082-07-9	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

**AGREEMENT** 

Not applicable

### **SECTION 16: OTHER INFORMATION**

#### REFERENCES

### ABBREVIATIONS AND ACRONYMS

#### Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION SUPERSEDES

Last Revision: 02/2023

02/2023

05/2021

For a list of changes to the SDS since the last version, please communicate with MEDISCA at <a href="https://www.medisca.com">www.medisca.com</a>



**DISCLAIMER** 

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.