**SECTION 1: PRODUCT IDENTIFICATION**

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>CHONDROITIN SULFATE SODIUM, USP (Bovine)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT CODE</td>
<td>0890</td>
</tr>
<tr>
<td>SUPPLIER</td>
<td>MEDISCA Inc.</td>
</tr>
<tr>
<td></td>
<td>Tel.: 1.800.932.1039</td>
</tr>
<tr>
<td></td>
<td>661 Route 3, Unit C, Plattsburgh, NY, 12901</td>
</tr>
<tr>
<td></td>
<td>3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118</td>
</tr>
<tr>
<td></td>
<td>6641 N. Belt Line Road, Suite 130, Irving, TX, 75063</td>
</tr>
<tr>
<td></td>
<td>MEDISCA Pharmaceutique Inc.</td>
</tr>
<tr>
<td></td>
<td>Tel.: 1.800.665.6334</td>
</tr>
<tr>
<td></td>
<td>4509 Rue Dobrin, St. Laurent, QC, H4R 2L8</td>
</tr>
<tr>
<td></td>
<td>21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2</td>
</tr>
<tr>
<td></td>
<td>MEDISCA Australia PTY LTD</td>
</tr>
<tr>
<td></td>
<td>Tel.: 1.300.786.392</td>
</tr>
<tr>
<td></td>
<td>5-9 Rickety Street, Mascot, NSW 2020</td>
</tr>
<tr>
<td>USES</td>
<td>Supplement</td>
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</table>

**SECTION 2: HAZARDS IDENTIFICATION**

<table>
<thead>
<tr>
<th>GHS CLASSIFICATION</th>
<th>Eye Irritation (Category 2B)</th>
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<tbody>
<tr>
<td>PICTOGRAM</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>SIGNAL WORD</td>
<td>Warning</td>
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<tr>
<td>HAZARD STATEMENT(S)</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>AUSTRALIA-ONLY HAZARDS</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**PRECAUTIONARY STATEMENT(S)**

| Prevention | Wash thoroughly after handling. |
| 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 advice/attention. |
| Storage    | Not applicable |
| Disposal   | Not applicable |

**HMIS CLASSIFICATION**

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
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<tr>
<td>1</td>
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<td>0</td>
<td>A</td>
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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>Chondroitin Sulfate Sodium</th>
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<tr>
<td>BOTANICAL NAME</td>
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<tr>
<td>SYNONYM</td>
<td>Chondroitin, hydrogen sulfate, sodium salt</td>
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<tr>
<td>CHEMICAL FORMULA</td>
<td>(C14H19NO14SNa2)n</td>
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<tr>
<td>CAS NUMBER</td>
<td>9082-07-9</td>
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</table>
SAFETY DATA SHEET

ALTERNATE CAS NUMBER

Not applicable

MOLECULAR WEIGHT

Not applicable

COMPOSITION

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>% BY WEIGHT</th>
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</thead>
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<tr>
<td>CHONDROITIN SULFATE SODIUM</td>
<td>9082-07-9</td>
<td>100</td>
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</table>

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.

NOTES

Chemical family: Sulfated linear mucopolysaccharide.

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 medical aid.

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

Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Not applicable

FLAMMABLE PROPERTIES

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

EXTINGUISHING MEDIA

Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid 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 sewerrage system or to drains.

SECTION 7: HANDLING AND STORAGE
SAFETY DATA SHEET

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 unlabelled 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. Preserve in airtight container, protected from light.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

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

<table>
<thead>
<tr>
<th></th>
<th>TWA</th>
<th>Ceiling</th>
<th>STEL</th>
<th>REL</th>
<th>IDLH</th>
<th>Remarks</th>
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<tr>
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<tr>
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<td>N/L</td>
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<td>AIHA WEEL</td>
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<td>-</td>
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</tr>
</tbody>
</table>

N/L = Not Listed

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.

SPECIFIC ENGINEERING CONTROLS
Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE
Solid

DESCRIPTION
White to off-white to cream colored powder. Hygroscopic

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

ODOR THRESHOLD
Not available

PH
5.5 - 7.5 (1%)

MELTING POINT
Not available

BOILING POINT
Not available

FREEZING POINT
Not available

FLASH POINT
Not available

SPECIFIC GRAVITY
Not available

EVAPORATION RATE
Not available

EXPLOSIVE LIMIT
Not available
SAFETY DATA SHEET

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY
Not established

STABILITY
Stable under recommended storage conditions

MATERIALS TO AVOID
Strong oxidants

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

HAZARDOUS POLYMERIZATION
Will not occur

POSSIBILITY OF HAZARDOUS REACTION
Not established

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.

SERIOUS EYE DAMAGE/EYE IRRITATION
Causes eye irritation.

RESPIRATORY OR 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.

CARCINOGENICITY
OSHA
CHONDROITIN SULFATE SODIUM is not listed.
NTP
CHONDROITIN SULFATE SODIUM is not listed.
IARC
CHONDROITIN SULFATE SODIUM is not evaluated.

California Proposition 65
This product does not contain any chemicals known to the State of California to cause 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
Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

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

ASPIRATION HAZARDS

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

SIGNS AND SYMPTOMS OF EXPOSURE

Not expected to present a significant hazard under anticipated conditions of normal use.

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

**TOXICITY**
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

**BIOACCUMULATIVE POTENTIAL**
Not available

**MOBILITY IN SOIL**
Soluble in water.

**OTHER ADVERSE EFFECTS**
Not available

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

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

**UNITED STATES & CANADA**

**UN PROPER SHIPPING NAME**
Not dangerous good

**UN NUMBER**
Not applicable

**CLASS**
Not applicable

**PACKING GROUP**
Not applicable

**AUSTRALIA**

**UN PROPER SHIPPING NAME**
Not dangerous good

**UN NUMBER**
Not applicable

**CLASS**
Not applicable

**PACKING GROUP**
Not applicable

**HAZCHEM**
Not Applicable

**ENVIRONMENTAL HAZARDS**
Not available

**SPECIAL SHIPPING INFORMATION**
Not applicable
SAFETY DATA SHEET

SECTION 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>CERCLA 40 CFR Part 302.4</th>
<th>SARA (Title III) 40 CFR Part 372.85</th>
<th>EPA 40 CFR Part 355 Appendix A</th>
<th>Appendix B</th>
<th>Pennsylvania</th>
<th>Right-to-know</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>California Prop 65</th>
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</thead>
<tbody>
<tr>
<td>CHONDROITIN SULFATE SODIUM 9082-07-9</td>
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<td>N/L</td>
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N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>Poisons and Therapeutic Goods Regulation</th>
<th>Therapeutic Goods Act</th>
<th>Code of Practices - Illicit Drug Precursors</th>
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<tbody>
<tr>
<td>CHONDROITIN SULFATE SODIUM 9082-07-9</td>
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</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

REFERENCES
Available upon request

ABBREVIATIONS AND ACRONYMS
CAS – Chemical Abstract Service; GHS – Global Harmonized System; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; TWA – Time Weighted Average; HSIS – Hazardous Substances Information System; STEL – Short Term Exposure Limit; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; LD50 – Lethal Dose, 50%; IARC – International Agency for Research on Cancer; NTP – National Toxicology Program; WHMIS – Workplace Hazardous Materials Information System; SARA – Superfund Amendments and Reauthorization Act; EPA – Environmental Protection Agency; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; HMIS – Hazardous Materials Information System; NIOSH – National Institute for Occupational Safety and Health; MSHA - Mine Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; IDHL - Immediately Dangerous to Health or Life; TLV – Threshold Limit Value; HSE – Health and Safety Executive; REL - Recommended Exposure Limit

LAST REVISION 01/2019

SUPERSEDES 12/2015

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.