



Ion Silver AB  
Produktvägen 12 B  
246 43 Löddeköpinge  
Sverige / Sweden  
Tel/Phone: +46 (0)46 712 360  
E-mail: [info@ion-silver.com](mailto:info@ion-silver.com)  
[www.ion-silver.com](http://www.ion-silver.com)

---

*VEGAN D-GLUCOSAMINE SULPHATE POTASSIUM*

---

**MATERIAL SAFETY DATA SHEET, 16-SECTION**

According to Regulation (EC) No. 1907/2006  
Release Date: Ver. 2.0, 10 March, 2016, Updated: 14 February 2018 (UA)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND MANUFACTURE**

**1.1 Product Name Product Name:**

Product name : VEGAN D-GLUCOSAMINE SULPHATE POTASSIUM  
Other name: D-Glucosamine Sulfate Potassium Chloride, D-Glucosamine sulfate 2KCL

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration. The annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.  
CAS-No.: 1296149-08-0

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Identified uses : Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet:**

Company name: Ion Silver AB Address: Produktvaegen 12B Zip and City: 24643 Loeddekoeping  
Country: Sweden Telephone: +46 46 712360 Email: [info@ion-silver.com](mailto:info@ion-silver.com) URL <http://www.ion-silver.com> Reg No: 5568878044 Contact: CEO Mr. Anders Sultan

**1.4 Emergency telephone Emergency Phone:**

+46 70 7284167 or Emergency Response Center in your country

**SECTION 2: HAZARD CLASSIFICATION**

**2.1 Classification of the substance or mixture**

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**  
**Classification of the product**

No need for classification according to GHS criteria for this product.

**Hazards not otherwise classified**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2 Labeling Data Hazard symbol:**

The product does not require a hazard warning label in accordance with GHS criteria.

Not a hazardous substance or mixture according.

Does not require labeling. Risk phrases: None. Safety phrases: Ingestion: Safe to ingest. Eye: Safe to use. Skin: Safe to use on skin. Inhalation: No hazard.

**2.3 Other hazards Description of risk:**

The product is under certain conditions capable of dust explosion.

Health Effects: No known negative health effects. Environmental: The product is classified as not dangerous for the environment.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Molecular Formula:  $(C_6H_{14}NO_5)_2SO_4 \cdot 2KCl$

Concentration: 98-102%

Molecular Weight: 605.52g/mol

CAS No.: 1296149-08-0

HS Code: 293299

No components need to be disclosed according to the applicable regulations

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures General:**

General advice: Remove contaminated clothing.

If inhaled: If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin: Remove contaminated clothing. Wash thoroughly with soap and water.

If in eyes: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2 Other information: Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**SECTION 5: FIRE FIGHTING MEASURES**

**5.1 Extinguishing media**



Ion Silver AB  
Produktvägen 12 B  
246 43 Löddeköpinge  
Sverige / Sweden  
Tel/Phone: +46 (0)46 712 360  
E-mail: [info@ion-silver.com](mailto:info@ion-silver.com)  
[www.ion-silver.com](http://www.ion-silver.com)

### **Suitable extinguishing media**

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

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

Hazards during fire-fighting: Harmful vapors  
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary

### **5.4 Further information**

No data available

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

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

Avoid dust formation. Avoid breathing vapours, mist or gas.  
For personal protection see section 8 (Use personal protective clothing).

#### **6.1.1 For non-emergency personnel:**

Protective gloves for prolonged handling. For emergency responders when cleaning up spillages:  
Gloves for prolonged handling.

### **6.2. Environmental precautions:**

For larger spills or discharges, keep away from drains, surface water, groundwater or soil. Contain spillages with sand, earth or any suitable adsorbent material. Inform the local authorities of large spills. Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/ground water.

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

Methods for cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal. Large quantities are collected and provided to the authorities under proper waste disposal rules.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.  
Avoid raising dust.

#### **6.4 Reference to other section:**

Other notes: Individual protection measures, such as personal: Protective equipment: See Section 8.  
Waste treatment: See section 13.

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

#### **7.1 Precautions for safe handling:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.  
For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): Combustible Solids  
Storage stability: Keeps in the original package for at least 48 months.

#### **7.3 Specific end uses:**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

#### **8.1 Control Parameters:**

#### **8.2 Exposure Safety Signs:**

**Appropriate engineering controls**  
General industrial hygiene practice

#### **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.

##### **Full contact**

Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)



Ion Silver AB  
Produktvägen 12 B  
246 43 Löddeköpinge  
Sverige / Sweden  
Tel/Phone: +46 (0)46 712 360  
E-mail: [info@ion-silver.com](mailto:info@ion-silver.com)  
[www.ion-silver.com](http://www.ion-silver.com)

### **Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail [sales@kcl.de](mailto:sales@kcl.de),

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **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 le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Do not let product enter drains.

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

### **9.1 Information on basic physical and chemical properties:**

- a) Appearance Form: crystalline. Colour: colourless/white
- b) Odour: No data available
- c) Odour Threshold: No data available
- d) pH value: 3.5-5.0
- e) Melting point/freezing point. Melting point/range: No data available
- f) Initial boiling point and boiling range: No data available
- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapour pressure: No data available
- l) Vapour density: The product is a non-volatile solid
- m) Relative density: No data available
- n) Water solubility: No data available
- o) Partition coefficient: noctanol/water No data available
- p) Auto-ignition temperature: No data available

- q) Decomposition temperature: No data available
- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

## **9.2 Other safety information**

No data available

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

### **10.1 Reactivity:**

No hazardous reactions if stored and handled as prescribed/ indicated. Reactivity hazards associated with this product: Hazardous decomposition products: None.

### **10.2 Chemical stability**

Stable under recommended storage conditions

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

No substances known that should be avoided.

### **10.6 Hazardous decomposition products**

No data available

In the event of fire: see section 5

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects:**

#### **Acute toxicity**

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

#### **Oral**

LD50(mouse)=15000mg/kg bw

#### **Inhalation**

Not determined

#### **Assessment other acute effects**

Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

#### **Skin corrosion/irritation**

No data available

#### **Serious eye damage/eye irritation**

No data available

#### **Respiratory or skin sensitisation**

No data available

#### **Germ cell mutagenicity**



Ion Silver AB  
Produktvägen 12 B  
246 43 Löddeköpinge  
Sverige / Sweden  
Tel/Phone: +46 (0)46 712 360  
E-mail: [info@ion-silver.com](mailto:info@ion-silver.com)  
[www.ion-silver.com](http://www.ion-silver.com)

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

Assessment of teratogenicity: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Toxicological information: Other toxicological data: Not available for preparation.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Aquatic toxicity**

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected.

**Toxicity to fish**

No data available.

**Aquatic invertebrates**

No data available.

**Aquatic plants**

No data available.

**Chronic toxicity to fish**

No data available.

**Chronic toxicity to aquatic invertebrates**

No data available.

### 12.2 Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O): No data available

### 12.3 Bioaccumulative potential

Assessment bioaccumulation potential: No data available

#### **12.4 Mobility in soil**

Assessment transport between environmental compartments: No data available

#### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### **12.6 Other adverse effects**

No data available

### **SECTION 13: WASTE TREATMENT**

#### **13.1 Waste treatment methods**

##### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization.

##### **Contaminated packaging**

Dispose of as unused product.

**Disposal considerations** **Waste disposal of substance:** **Container disposal:** Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**RCRA:** None

### **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**

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

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

#### **15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out





Ion Silver AB  
Produktvägen 12 B  
246 43 Löddeköpinge  
Sverige / Sweden  
Tel/Phone: +46 (0)46 712 360  
E-mail: [info@ion-silver.com](mailto:info@ion-silver.com)  
[www.ion-silver.com](http://www.ion-silver.com)

## SECTION 16: OTHER INFORMATION

### **Further information**

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.

### **List of relevant R/S phrases (Section 2 and 3):**

S2 - Keep away from children S25 - Avoid prolonged contact with eyes