

# SAFETY DATA SHEET

SDS DATE: October 07, 2021



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ginsenoside Ro  
**PRODUCT CODES:** Cat# B3395-5, -25  
**RESTRICTIONS ON USE:** For laboratory research purposes. Not for drug or household use.  
**MANUFACTURER:** BioVision, Inc.  
**ADDRESS:** 155 S. Milpitas Boulevard, Milpitas, CA 95035  
**EMERGENCY PHONE:** 858-373-8066  
**OTHER CALLS:** 408-493-1800  
**FAX PHONE:** 408-493-1801  
**EMAIL:** [sds@biovision.com](mailto:sds@biovision.com)

## SECTION 2: HAZARDS IDENTIFICATION

Product Name/Chemical Name	Description	Volume	Safety Information
Ginsenoside Ro	Solid	B3395-5: 5 mg B3395-25: 25 mg	See below

### Ginsenoside Ro:

#### Emergency Overview:

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 4), H302

**GHS Label elements, including precautionary statements**



#### Pictogram:

**Signal word:**

Warning

**Hazard statement(s):**

H302 Harmful if swallowed.

**Precautionary statement(s):** P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/ container to an approved waste disposal plant.

#### HMIS Classification

**Health hazard:**

**Flammability:**

**Physical hazards:**

#### NFPA Rating

**Health Hazard:**

**Fire:**

**Reactivity Hazard:**

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
Ginsenoside Ro	34367-04-9	803-704-3	957.12	C <sub>48</sub> H <sub>76</sub> O <sub>19</sub>	100%

## SECTION 4: FIRST AID MEASURES

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

**In case of skin contact:** Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

**If swallowed:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. DO NOT induce vomiting unless directed to do so by medical personnel.

## SECTION 5: FIRE-FIGHTING MEASURES

# SAFETY DATA SHEET

SDS DATE: October 07, 2021



**Suitable extinguishing media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

**Special protective equipment for fire fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective, equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**Conditions for safe storage:** -20°C. Protect from light

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Exposure Controls

##### Appropriate Engineering controls (Ventilation etc.)

Change contaminated clothing. Wash hands after working with substance.

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

##### Hand protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling

##### Body protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Eye/face protection

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

##### Work/Maintenance Practices

Do not take internally. Facilities storing or utilizing this material should be equipped with an eye wash and a safety shower. Wash thoroughly after handling

##### Hygiene measures

General industrial hygiene practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Ginsenoside Ro
Appearance:	White to light yellow solid
pH (6% solution at 25 °C):	No data available
Water Solubility:	No data available
Other Solubility:	>50 mg/ml DMSO
Boiling Point (°C):	No data available
Melting Point (°C):	No data available
Flash Point (°C):	No data available
Ignition Temperature (°C):	No data available
Density:	No data available
Flammability (solid, gas)	No data available
Explosive limits	LEL: No data UEL: No data
Vapor pressure (vs. Air or mmHg)	No data available
Vapor Density (vs. Air = 1)	No data available
Specific Gravity (Water = 1)	No data available
Octanol/Water Partition	No data available

# SAFETY DATA SHEET

SDS DATE: October 07, 2021



Decomposition Temperature	No data available
Viscosity	No data available

## SECTION 10: STABILITY AND REACTIVITY

Property	Ginsenoside Ro
Reactivity	Stable under recommended transport or storage conditions
Chemical stability	Stable under recommended storage conditions
Polymerization	Will not occur
Conditions to avoid:	No data available
Materials to avoid:	strong oxidizing agents
Hazardous decomposition products:	No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Ginsenoside Ro:

**Acute toxicity:** LD50 Oral - Rat - 1,820 mg/kg; Inhalation: No data available; Dermal: No data available

**Skin corrosion/irritation:** Classified based on available data

**Serious eye damage/eye irritation:** Classified based on available data

**Respiratory or skin sensitization:** Classified based on available data

**Germ cell mutagenicity:** Classified based on available data

Result: negative **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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Classified based on available data

**Teratogenicity:** Classified based on available data

**Specific target organ toxicity – single exposure (GHS):** Classified based on available data

**Specific target organ toxicity – repeated exposure (GHS):** No data available

**Aspiration hazard:** No data available

**Additional Information** RTECS: FM3375000

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

## SECTION 12: ECOLOGICAL INFORMATION

### Ginsenoside Ro:

**Persistence and degradability:** No data available.

**Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**Bio accumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

## SECTION 14: TRANSPORT INFORMATION

### Ginsenoside Ro:

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

## SECTION 15: REGULATORY INFORMATION

### Ginsenoside Ro:

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

**SARA 302 Components:** SARA 302: No chemical in this material is subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** No data available

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

# SAFETY DATA SHEET

**SDS DATE: October 07, 2021**

**Pennsylvania Right To Know Components:** No data available

**New Jersey Right To Know Components:** No data available

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



---

## SECTION 16: OTHER INFORMATION

---

### DISCLAIMER:

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. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.