



# AF Rhodiola

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Date of issue: 5/24/2024

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : AF Rhodiola  
Product code : 5542

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Bio-Botanica, Inc.  
75 Commerce Drive  
Hauppauge, NY, 11788  
US  
T (631) 231-5522 - F (631) 231 - 7332  
[sds@bio-botanica.com](mailto:sds@bio-botanica.com) - [www.bio-botanica.com](http://www.bio-botanica.com)

#### 1.4. Emergency telephone number

Emergency number : +1-800-424-9300 / +1 703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name     | Product identifier | %       | GHS US classification |
|----------|--------------------|---------|-----------------------|
| Glycerin | CAS-No.: 56-81-5   | 55 – 65 | Not classified        |
| Water    | CAS-No.: 7732-18-5 | 25 – 35 | Not classified        |

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| Name                  | Product identifier | %      | GHS US classification |
|-----------------------|--------------------|--------|-----------------------|
| Rhodiola Root Extract | CAS-No.: N/A       | 5 – 15 | Not classified        |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

|                                                  |                                                                                |
|--------------------------------------------------|--------------------------------------------------------------------------------|
| <b>AF Rhodiola</b>                               |                                                                                |
| No additional information available              |                                                                                |
| <b>Glycerin (56-81-5)</b>                        |                                                                                |
| <b>USA - OSHA - Occupational Exposure Limits</b> |                                                                                |
| Local name                                       | Glycerin (mist)                                                                |
| OSHA PEL (TWA) [1]                               | 15 mg/m <sup>3</sup> (Total dust)<br>5 mg/m <sup>3</sup> (Respirable fraction) |
| Regulatory reference (US-OSHA)                   | OSHA Annotated Table Z-1                                                       |
| <b>Water (7732-18-5)</b>                         |                                                                                |
| No additional information available              |                                                                                |
| <b>Rhodiola Root Extract (N/A)</b>               |                                                                                |
| No additional information available              |                                                                                |

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

|                                                                          |
|--------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                  |
| Protective gloves                                                        |
| <b>Eye protection:</b>                                                   |
| Safety glasses                                                           |
| <b>Skin and body protection:</b>                                         |
| Wear suitable protective clothing                                        |
| <b>Respiratory protection:</b>                                           |
| In case of insufficient ventilation, wear suitable respiratory equipment |

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### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| Physical state                                  | : Liquid                          |
| Appearance                                      | : Slightly Cloudy Viscous Liquid. |
| Color                                           | : Dark reddish-brown              |
| Odor                                            | : Characteristic, aromatic        |
| Odor threshold                                  | : No data available               |
| pH                                              | : 3.5 – 6.5                       |
| Melting point                                   | : Not applicable                  |
| Freezing point                                  | : No data available               |
| Boiling point                                   | : No data available               |
| Flash point                                     | : No data available               |
| Relative evaporation rate (butyl acetate=1)     | : No data available               |
| Flammability (solid, gas)                       | : Not applicable.                 |
| Vapor pressure                                  | : No data available               |
| Relative vapor density at 20 °C                 | : No data available               |
| Relative density                                | : No data available               |
| Solubility                                      | : No data available               |
| Partition coefficient n-octanol/water (Log Pow) | : No data available               |
| Auto-ignition temperature                       | : No data available               |
| Decomposition temperature                       | : No data available               |
| Viscosity, kinematic                            | : No data available               |
| Viscosity, dynamic                              | : No data available               |
| Explosion limits                                | : No data available               |
| Explosive properties                            | : No data available               |
| Oxidizing properties                            | : No data available               |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Glycerin (56-81-5)         |                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------|
| LD50 oral rat              | 27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 10 day(s)) |
| LD50 dermal                | 56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))      |
| LC50 inhalation rat (mg/l) | > 2.75 mg/l (4 h, Rat, Male, Experimental value, Converted value, Inhalation (vapours))       |
| ATE US (oral)              | 27200 mg/kg body weight                                                                       |
| ATE US (dermal)            | 56750 mg/kg body weight                                                                       |

Skin corrosion/irritation : Not classified  
pH: 3.5 – 6.5

| Glycerin (56-81-5) |         |
|--------------------|---------|
| pH                 | 5.5 – 8 |

Serious eye damage/irritation : Not classified  
pH: 3.5 – 6.5

| Glycerin (56-81-5) |         |
|--------------------|---------|
| pH                 | 5.5 – 8 |

Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
Specific target organ toxicity – single exposure : Not classified  
Specific target organ toxicity – repeated exposure : Not classified  
Aspiration hazard : Not classified  
Viscosity, kinematic : No data available

| Glycerin (56-81-5)   |                                     |
|----------------------|-------------------------------------|
| Viscosity, kinematic | No data available in the literature |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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### Glycerin (56-81-5)

|                    |                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]    | 54000 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal)       |
| EC50 - Daphnia [1] | > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |

### 12.2. Persistence and degradability

#### Glycerin (56-81-5)

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Persistence and degradability   | Readily biodegradable in water.     |
| Biochemical oxygen demand (BOD) | 0.87 g O <sub>2</sub> /g substance  |
| Chemical oxygen demand (COD)    | 1.16 g O <sub>2</sub> /g substance  |
| ThOD                            | 1.217 g O <sub>2</sub> /g substance |

### 12.3. Bioaccumulative potential

#### Glycerin (56-81-5)

|                                                 |                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential                       | Not bioaccumulative.                                                 |

### 12.4. Mobility in soil

#### Glycerin (56-81-5)

|                                                            |                                                  |
|------------------------------------------------------------|--------------------------------------------------|
| Surface tension                                            | 63.4 mN/m (20 °C, 1000 g/l)                      |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil                                             | Highly mobile in soil.                           |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

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### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not applicable

**TDG**  
Transport hazard class(es) (TDG) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

**DOT**  
No data available

**TDG**  
No data available

**IMDG**  
No data available

**IATA**  
No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

|                                                                                                                                                                                     |             |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|
| All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for: |             |         |
| Rhodiola Root Extract                                                                                                                                                               | CAS-No. N/A | 5 – 15% |

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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### 15.2. International regulations

#### CANADA

##### Glycerin (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

##### Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

##### Rhodiola Root Extract (N/A)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component         | State or local regulations                                                                                 |
|-------------------|------------------------------------------------------------------------------------------------------------|
| Glycerin(56-81-5) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

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Safety Data Sheet (SDS), USA

Bio Botanica, Inc. cannot anticipate all conditions under this information and its product or in combination of products of other manufacturers. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product. Bio Botanica will not assume liability for loss, injury, damage, or expense due to improper use. The information stated in this document was written based on the best knowledge and experience currently available. The above data relates only to this product and not its use in combination with any other material or process. This document has been created as a guidance for safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups. To the best of Bio Botanica's knowledge this Safety Data Sheet is considered accurate as of the date of this document.

It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, considering the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.