

# Bioradis Sol

Review date: January 2025

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Commercial designation** Bioradis Sol.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against.

**relevant use** Agricultural professional use. Other fertilizers and special products.

**use discouraged** No information available.

### 1.3 Details of the supplier of the safety data sheet.

**Manufacturer** Bioera, SL  
C/ Portugal, 12B  
43120 Constantí (Tarragona)  
+34 977 525 630

### 1.4 Emergency telephone

**For Spain** National Institute of Toxicology (+34 915 620 420)

**Europe/Middle East/Africa** +1-760-476-3961 (Access code: 333021)

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## SECTION 2: HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

**According to Regulation (EC) 1272/2008 (CLP)**

Unrated.

**According to Directive 67/548/CEE (DSD) or 1999/45/CE (DPD)**

Unrated.

### 2.2 Label elements

**According to Regulation (EC) 1272/2008 (CLP)**

P102: Keep out of the reach of children.

P270: Do not eat, drink or smoke when using.

### 2.3 Other hazards

**dangers** None known.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Substances** Mycorrhizal fungi and rhizosphere bacteria.  
Carrier: mix of silicates and dextrose.

### 3.2 Mix

**Mixture** No substance to be mentioned according to the criteria of section 3.2 of Annex II of the REACH Regulation.

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## SECTION 4: FIRST AID

### 4.1 Description of first aid

**First aid** If in doubt, seek medical attention.

**In case of inhalation** Remove the person from the contaminated area. If symptoms persist, seek medical attention.

**In contact with the eyes** Wash with plenty of water. The eyelids should be kept separate from the eyeball to ensure proper washing. If irritation occurs seek medical attention.

In accordance with Regulation (EU) 878/2020 and Regulation (EC) 1907/2006

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<b>In contact with the skin</b>	Remove stained clothing and wash with plenty of water.
<b>In case of ingestion</b>	Wash mouth. Never induce vomiting if the person is unconscious or confused. Seek medical attention.
IN CASE OF ACCIDENT OR DISCOMFORT, SEEK A DOCTOR IMMEDIATELY OR CALL THE NATIONAL INSTITUTE OF TOXICOLOGY, Telephone (91) 562 04 20. In both cases, have the container or label at hand.	
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
<b>main symptoms</b>	None known
<b>4.3 Indication of any medical attention and special treatment that must be given immediately.</b>	
<b>Treatment</b>	symptomatic treatment.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Appropriate Extinguishing Media

Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Foam. Sand. Water.

**not appropriate** None known.

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

**dangers**

#### Hazardous decomposition products in case of fire

they don't know each other

#### 5.3 Recommendations for firefighting personnel

**Protection** Wear respiratory protection. Wear suitable protective clothing and face and eye protection. Keep away from combustible materials.

**Other information** The water used to extinguish the fire should not reach surface waters and sewers.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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

**Non-emergency service personnel** Wear suitable protective clothing.

##### 6.1.2. For emergency personnel

**emergency personnel** Do not intervene without suitable protective equipment.

#### 6.2 Environmental precautions

**Environment** To avoid it's releasing into the environment. Notify the competent authorities of accidental spills in water courses or sewers.

#### 6.3 Cleaning methods and containment material

**cleanup containment** Clean up as soon as possible.

**Other information**

#### 6.4 Reference to other sections

**References** For personal protection see Section 8 and Section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

##### Additional dangers during treatment

Keep away from heat sources/hot surfaces. No Smoking.

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

**Storage conditions** Store in a cool, dry, well-ventilated place. Keep away from food, drink or animal feed. Do not drink, eat or smoke in work areas. Keep containers tightly closed.

**Other information** Do not mix with water (except for normal preparation).

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## 7.3 Specific end uses

end use See section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Parameter No information available.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

**technical controls** Use proper ventilation procedures at each point in the process. Ventilate all transport vehicles before unloading.

#### 8.2.2 Individual protection measures, such as personal protective equipment

**Respiratory tract** not applicable

**Hands** Wear protective gloves.

**Eyes** It is advisable to wear chemical protection goggles or an approved face shield.

**skin and body** Wear suitable protective clothing.

**Other information** Wash all protective clothing after use.

#### 8.2.3 Environmental exposure control

**Exposure control** Prevent possible spills from reaching surface waters or sewers.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physicochemical properties

<b>Appearance</b>	Powder
<b>Color</b>	Grey
<b>Smell</b>	Characteristic.
<b>ph</b>	7
<b>melting/freezing point</b>	Not applicable.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flashpoint</b>	Undetermined.
<b>Evaporation rate</b>	Not applicable.
<b>Inflammability</b>	Not applicable.
<b>upper and lower limits of flammability/explosion</b>	Not determined.
<b>Vapor pressure</b>	Undetermined.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	0,7 kg/l.
<b>Apparent density</b>	Undetermined.
<b>Water solubility</b>	80% water soluble
<b>Solubility in other solvents</b>	Not applicable.
<b>Coef. n-octanol/water partition</b>	Not applicable.
<b>autoignition temperature</b>	Not determined.
<b>decomposition temperature</b>	Not determined.
<b>dynamic viscosity</b>	Not determined.
<b>Kinematic viscosity</b>	Not determined.
<b>explosive properties</b>	Not determined.
<b>oxidizing properties</b>	Not determined.
<b>9.2 Additional information</b>	
<b>relative vapor density</b>	Not determined.
<b>Surface tension</b>	Not determined.

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**SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	No relevant information available. ("See Section 7").
<b>10.2 Chemical stability</b>	Stable under normal conditions of use.
<b>10.3 Possibility of hazardous reactions</b>	
<b>dangerous reactions</b>	None known.
<b>10.4 Conditions to avoid</b>	
<b>Avoid</b>	High temperatures, light and humidity.
<b>10.5 Incompatible materials</b>	
<b>incompatibilities</b>	Reducing agent. Sawdust.
<b>10.6 Hazardous decomposition products</b>	
<b>dangerous products</b>	Gaseous ammonia. Nitrogen oxides.

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

<b>toxicological effects</b>	There are no experimental toxicological data available on the preparation. No ingredient is classified. According to the available data, the classification criteria do not coincide with any of the types of hazard.
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**Information on the most likely routes of exposure**

This product is for agricultural use; therefore the most likely routes of exposure are via the skin or by inhalation.

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**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

<b>Toxicity</b>	No further information available.
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**12.2 Persistence and degradability** The main components of the mixture have a good degradation.

**12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil** No data available.

**12.5 Results of PBT and vPvB assessment**

Not required.

**12.6 Other Adverse Effects**

No other adverse environmental effects are known.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

<b>methods</b>	Dispose of in accordance with local regulations in force. Dispose of this substance and its container at a public collection point for special or hazardous waste. Do not discharge wastewater.
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**Recommendations for wastewater disposal**

In case of accidental spillage see section 6.

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## SECTION 14: TRANSPORT INFORMATION

### Transport information

Not regulated for transport per ADR/RID/IMDG/IATA/ADN requirements

**UN number** The product is not dangerous in accordance with the regulations applicable to transport.

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## 15. REGULATORY INFORMATION

### 15.1 Regulations and legislation on safety, health and the environment specific to the mixture.

There are no specific regulations/legislation for this preparation.

**hazard symbols** None.

**R-phrases** None.

Hazard pictograms are not required.

**Phrases of Prudence** P102: Keep out of the reach of children.  
P270: Do not eat, drink or smoke when using.  
P264: Wash thoroughly after handling.  
Under normal use conditions and in its original form, the product does not have any other negative effect on the environment.

### 15.2 Chemical safety assessment.

A chemical safety assessment of the mixture is not required.

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## 16. OTHER INFORMATION

This Safety Data Sheet is prepared in accordance with EU Commission Regulation No 878/2020 that modifies Regulation (EC) No 1907/2006.

The information presented reflects our current level of knowledge and is intended to describe the product from a safety point of view. This information, therefore, does not represent an express or implicit guarantee about specific properties of the product.