# SAFETY DATA SHEET

**Rhizobia for Soybean**

According to regulation (EC) No. 1907/2006 and its amendment regulation (EC) No. 2015/830

**Last review**

01.01.2018

## Section 1  Identification of the mixture and of the company

### 1.1 Product identifier

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Rhizobia for Soybean</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Synonyms</strong></td>
<td>Eco-Rhiz Soya</td>
</tr>
</tbody>
</table>

### 1.2 Relevant identified uses of the mixture and uses advised against

<table>
<thead>
<tr>
<th><strong>Use of the product</strong></th>
<th>Bacterial inoculant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uses advised against</strong></td>
<td></td>
</tr>
</tbody>
</table>

### 1.3 Details of the supplier of the Safety Data Sheet

<table>
<thead>
<tr>
<th><strong>Manufacturer</strong></th>
<th>Plant Health Products (Pty) Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P.O. Box 207</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Nottingham Road 3280, South Africa</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Supplier</strong></th>
<th>Andermatt Biocontrol AG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td>Stahlermatten 6</td>
</tr>
<tr>
<td></td>
<td>6146 Grossdietwil, Switzerland</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Phone (technical)</strong></th>
<th>+41 (0)62 917 5125</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:contact@biocontrol.ch">contact@biocontrol.ch</a></td>
</tr>
</tbody>
</table>

### 1.4 Emergency telephone number

<table>
<thead>
<tr>
<th><strong>Phone (medical)</strong></th>
<th>+41 (0)44 251 5151 (Swiss Toxicology Centre)</th>
</tr>
</thead>
</table>

## Section 2  Hazards identification

### 2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]
Not classified as hazardous.

### 2.2 Label elements

Store locked up.
Keep out of the reach of children.
If medical advice is needed, have product container or label at hand.
To avoid risks to human health and the environment, comply with the instructions for use.
Contains *Bradyrhizobium japonicum*. May produce an allergic reaction.

### 2.3 Other hazards

This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT).
This mixture does not contain any substances which are very persistent and very bioaccumulative (vPvB).

## Section 3  Composition/information on ingredients

### 3.1 Substances

This product is a mixture

### 3.2 Mixtures

*Bradyrhizobium japonicum* strain WB74 in a carrier
No hazardous component according to Regulation (EC) No 1272/2008 [CLP]

## Section 4  First aid measures

### 4.1 Description of first aid measures

#### General notes

Change any contaminated or wetted clothing at once.
If poisoning occurs contact a doctor or Swiss Toxicology Centre.

#### Following inhalation

Move to fresh air, rest, half upright position, loosen clothing.
Oxygen or artificial respiration if there is difficulty in breathing.
Seek medical advice after significant exposure. Symptomatic
treatment is advised.

Following skin contact
Remove contaminated clothing. Seek medical advice if irritation develops. Launder clothes before reuse. After contact with skin, wash immediately with plenty of water.

Following eye contact
Rinse thoroughly with plenty of water. Eyelids should be hold away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Following ingestion
No typical symptoms and affects known. Drink water.

Advice to physician
Symptomatic treatment

4.2 Most important symptoms and effects, both acute and delayed
No typical symptoms and effects known.

4.3 Indication of any immediate medical attention and special treatment needed
None

Section 5 Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Water, Foam, Carbon dioxide

Unsuitable extinguishing media
None

5.2 Special hazards arising from the mixture
Carbon monoxide, carbon dioxide

5.3 Advice for firefighters
None

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use protective clothing, gloves, safety goggles and boots. Do not inhale.

6.2 Environmental precautions
Prevent entry into drains, waters, sewages etc. of the product; contact immediately the municipal technical management if the product enters such bodies.

6.3 Methods and material for containment and cleaning up
Sweep or vacuum, without creating dust, into a suitable container for disposal and wash area with water.

6.4 Reference to other sections
See personal protective equipment under Section 8 of SDS.

Section 7 Handling and storage

7.1 Precautions for safe handling
The usual precautions for handling chemicals should be observed. Ensure adequate ventilation when handling.

7.2 Conditions for safe storage, including any incompatibilities
Must be stored under cool, dry conditions between 5 and 20°C (Preferably 10°C) Avoid contact with fungicides and all toxic materials.

7.3 Specific end use(s)
Bacterial inoculant

Section 8 Exposure controls/personal protection

8.1 Control parameters
The usual precautionary measures for handling chemicals should be observed. Provide adequate ventilation.
8.2 Exposure controls

- **Eye/face protection**: Wear a face shield or goggles
- **Skin protection**: Use protective clothing
- **Respiratory protection**: No specific recommendations
- **Thermal hazards**: No specific recommendations
- **Other information**: None

**Section 9 Physical and chemical properties**

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

- **Physical state**: Wet granular
- **Colour**: Pink
- **Odour**: Slightly sweet
- **Odour threshold**: Not determined
- **pH**: 6-8
- **Melting point/freezing point**: Not available
- **Initial boiling point and boiling range**: Not applicable
- **Flash point**: Not flammable
- **Evaporation rate**: Not determined
- **Flammability**: Not flammable
- **Upper/lower flammability or explosive limits**: Not flammable
- **Vapour pressure**: Not applicable
- **Vapour density**: Not relevant
- **Relative density**: 0.8 (g/cm³)
- **Solubility(ies)**: insoluble
- **Partition coefficient: n-cotanol/water**: Not applicable
- **Auto-ignition temperature**: Not available
- **Decomposition temperature**: Not determined
- **Viscosity**: Not determined
- **Explosive properties**: Not explosive
- **Oxidising properties**: Not determined

**9.2 Other information**: None

**Section 10 Stability and Reactivity**

**10.1 Reactivity**: Not reactive

**10.2 Chemical stability**: No decomposition if stored and handled properly

**10.3 Possibility of hazardous reactions**: Not relevant

**10.4 Conditions to avoid**: Avoid very low or very high temperatures

**10.5 Incompatible materials**: Bactericides, antibiotics, sterilants and toxic compounds

**10.6 Hazardous decomposition products**: None
### Section 11  Toxicological information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td></td>
<td>&gt;5000mg not toxic or pathogenic</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td></td>
<td>Not existing</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td></td>
<td>Not existing</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td></td>
<td>Not relevant</td>
</tr>
</tbody>
</table>

### Section 12  Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Effect</th>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute (short-term) toxicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Crustacea</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Algae/aquatic plants</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Other organisms</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Chronic (long-term) toxicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Crustacea</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Algae/aquatic plants</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Other organisms</td>
<td></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Effect</th>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abiotic Degradation</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Physical- and photo-chemical elimination</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Biodegradation</td>
<td></td>
<td>Biodegradable</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Effect</th>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/water partition coefficient (Kow)</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Bioconcentration factor (BCF)</td>
<td></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

<table>
<thead>
<tr>
<th>Effect</th>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Known or predicted distribution to environmental compartments</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Surface tension</td>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Adsorption/Desorption</td>
<td></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

None

12.7 Additional information

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Section 13 Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal
Use pressure rinsing devices or triple rinsing with water to reduce any product residues in the container to insignificant levels. Don’t dispose product or containers on ponds, rivers or ditches. Don’t re-use containers for other purposes. Waste disposal and recycling contractors will take cleaned containers. Waste resulting from the use of the product must be disposed on site or on an approved waste disposal facility. Empty the sprayer out in the field being treated by spraying out on to a relatively pest free part of the field left unsprayed or under-dosed for the crop.

Waste codes/waste designations according to LoW
Not applicable

Waste treatment-relevant information
None

Sewage disposal-relevant information
Waste should not be disposed of by release to sewers

Other disposal recommendations
None

Section 14 Transport Information

Inland transport
Not restricted

Sea transport
Not restricted

Air transport
Not restricted

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the mixture
Authorisations
Not relevant

Restrictions on use
Not relevant

15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for this mixture by the supplier.

Section 16 Other information

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user’s own responsibility to make sure that the information is appropriate and complete for his special use of this product.

i Indication of changes
Adapted to the regulation (EC) No. 1272/2008 [CLP]

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Composed by
Philip Kessler