

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : Rhizopon AA Tablets  
Product group : Trade product

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category : Professional use  
Use of the substance/mixture : Plant growth regulator that promotes root formation.

| Title               | Life cycle stage | Use descriptors |
|---------------------|------------------|-----------------|
| Rhizopon AA Tablets | Professional     | PC27            |

Full text of use descriptors: see section 16

**1.2.2. Uses advised against**

No additional information available

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

Rhizopon B.V.  
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2394 CE Hazerswoude-Rijndijk - The Netherlands  
T + 31(0) 71 3415146 - F + 31(0) 71 3415829  
[info@rhizopon.com](mailto:info@rhizopon.com) - [www.rhizopon.com](http://www.rhizopon.com)

**1.4. Emergency telephone number**

No additional information available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Serious eye damage/eye irritation, Category 2 H319  
Reproductive toxicity, Category 2 H361fd

Full text of H statements : see section 16

**Adverse physicochemical, human health and environmental effects**

Suspected of damaging fertility or the unborn child.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) : Warning  
Hazardous ingredients : 4-(indol-3-yl)butyric acid  
Hazard statements (CLP) : H319 - Causes serious eye irritation.  
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.  
Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.  
Extra phrases : SP1 Do not contaminate water with the product or its container.

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable

# Rhizopon AA Tablets

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 3.2. Mixtures

Comments : Mentioned percentages are in (w/w %)

| Name  | Product identifier  | % w/w<br>(% w/w) | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP] |
|---|---|------------------|---|
| 4-(indol-3-yl)butyric acid  | (CAS-No.) 133-32-4<br>(EC-No.) 205-101-5<br>(REACH-no) -                  | 20               | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Repr. 2, H361fd    |
| Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) | (CAS-No.) 14807-96-6<br>(EC-No.) 238-877-9<br>(REACH-no) 01-2120140278-58 | < 5              | Not classified  |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical attention.  |
| First-aid measures after skin contact | : Wash skin with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.  |
| First-aid measures after eye contact  | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.  |

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>). Water spray. Dry powder. Foam.

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

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

### 5.3. Advice for firefighters

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

Try to stop release. Do not allow to enter undiluted resp. in large quantities into surface water or into drains. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Mechanically recover the product. Ventilate area. Dust deposited may be vacuum cleaned. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Knock down dust with water spray jet. After cleaning, flush traces away with water. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

# Rhizopon AA Tablets

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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  | : Keep container tightly closed. Store under dry conditions. Keep away from food, drink and animal feedingstuffs. Original packaging. Store locked up. Store in a well-ventilated place. Keep cool. Protect from moisture. |
| Storage temperature | : 10 - 20 °C   |
| Packaging materials | : Polypropylene. Polyethylene.   |

#### 7.3. Specific end use(s)

No supplementary information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>) (14807-96-6)

##### United Kingdom - Occupational Exposure Limits

|                              |                                      |
|------------------------------|--------------------------------------|
| Local name                   | Talc                                 |
| WEL TWA (mg/m <sup>3</sup> ) | 1 mg/m <sup>3</sup> respirable dust  |
| Regulatory reference         | EH40/2005 (Third edition, 2018). HSE |

##### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>) (14807-96-6)

##### DNEL/DMEL (Workers)

|  |                           |
|--|---------------------------|
| Acute - systemic effects, inhalation     | 2.16 mg/m <sup>3</sup>    |
| Acute - local effects, inhalation        | 3.6 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 43.2 mg/kg bodyweight/day |
| Long-term - local effects, dermal        | 4.54 mg/m <sup>3</sup>    |
| Long-term - systemic effects, inhalation | 2.16 mg/m <sup>3</sup>    |
| Long-term - local effects, inhalation    | 3.6 mg/m <sup>3</sup>     |

##### DNEL/DMEL (General population)

|  |                           |
|--|---------------------------|
| Acute - systemic effects, inhalation     | 1.08 mg/m <sup>3</sup>    |
| Acute - systemic effects, oral           | 160 mg/kg bodyweight      |
| Acute - local effects, inhalation        | 1.8 mg/m <sup>3</sup>     |
| Long-term - systemic effects, oral       | 160 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 1.08 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 21.6 mg/kg bodyweight/day |
| Long-term - local effects, dermal        | 2.27 mg/cm <sup>2</sup>   |
| Long-term - local effects, inhalation    | 1.8 mg/m <sup>3</sup>     |

##### PNEC (Water)

|  |             |
|--|-------------|
| PNEC aqua (freshwater)                 | 597.97 mg/l |
| PNEC aqua (marine water)               | 141.26 mg/l |
| PNEC aqua (intermittent, freshwater)   | 597.97 mg/l |
| PNEC aqua (intermittent, marine water) | 141.26 mg/l |

##### PNEC (Sediment)

|                              |                 |
|------------------------------|-----------------|
| PNEC sediment (freshwater)   | 31.33 mg/kg dwt |
| PNEC sediment (marine water) | 3.13 mg/kg dwt  |

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

### Hand protection:

In case of repeated or prolonged contact wear gloves. Recommendation: Wear suitable gloves tested to EN374. Suitable material: Nitrile rubber (NBR), Neoprene. Layer thickness : No data available. Breakthrough time : refer to the recommendations of the supplier. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection:

Use eye protection according to EN 166, designed to protect powders and dusts. Safety glasses

### Skin and body protection:

Long sleeved protective clothing. Overall.

### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

## SECTION 9: Physical and chemical properties

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

|  |  |
|--|--|
| Physical state                             | : Solid  |
| Appearance                                 | : Tablets.   |
| Colour                                     | : Beige.   |
| Odour                                      | : odourless.   |
| Odour threshold                            | : No data available  |
| pH   | : 4.55 (1% solution in water) (20.5°C)                         |
| Relative evaporation rate (butylacetate=1) | : No data available  |
| Melting point                              | : 124 °C (4-(indol-3-yl)butyric acid) (OECD 102 method)        |
| Freezing point                             | : Not applicable   |
| Boiling point                              | : > 250 °C (4-(indol-3-yl)butyric acid) (OECD 102 method)      |
| Flash point                                | : Not applicable   |
| Auto-ignition temperature                  | : 362 °C   |
| Decomposition temperature                  | : > 250 °C (4-(indol-3-yl)butyric acid) (OECD 102 method)      |
| Flammability (solid, gas)                  | : The product is not flammable                                 |
| Vapour pressure                            | : 1.1 Pa @20°C (4-(indol-3-yl)butyric acid) (EEC A.4/OECD 104) |
| Relative vapour density at 20 °C           | : No data available  |
| Relative density                           | : Not applicable   |
| Density                                    | : Not applicable   |
| Solubility                                 | : Water: Slightly soluble                                      |
| Log Pow                                    | : No data available  |
| Viscosity, kinematic                       | : No data available  |
| Viscosity, dynamic                         | : Not applicable   |
| Explosive properties                       | : Product is not explosive.                                    |
| Oxidising properties                       | : Not oxidizing.   |
| Explosive limits                           | : No data available  |

### 9.2. Other information

No additional information available

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## Safety Data Sheet

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### 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). Moisture.

#### 10.5. Incompatible materials

Strong acid. Oxidizing agent.

#### 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

#### Rhizopon AA Tablets

|               |              |
|---------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
|---------------|--------------|

|                    |              |
|--------------------|--------------|
| LD50 dermal rabbit | > 2000 mg/kg |
|--------------------|--------------|

|                            |           |
|----------------------------|-----------|
| LC50 inhalation rat (mg/l) | 5.17 mg/l |
|----------------------------|-----------|

|             |              |
|-------------|--------------|
| ATE vapours | 5.17 mg/l/4h |
|-------------|--------------|

|               |              |
|---------------|--------------|
| ATE dust/mist | 5.17 mg/l/4h |
|---------------|--------------|

Skin corrosion/irritation : Not classified  
pH: 4.55 (1% solution in water) (20.5°C)

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 4.55 (1% solution in water) (20.5°C)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

#### 4-(indol-3-yl)butyric acid (133-32-4)

|             |  |
|-------------|--|
| LC50 fishes | 250 mg/l 96 h, Oncorhynchus mykiss (Rainbow trout) |
|-------------|--|

|             |   |
|-------------|---|
| LC50 fish 2 | 210 mg/l 96 h, Leuciscus idus (golden orfe) |
|-------------|---|

|              |                               |
|--------------|-------------------------------|
| EC50 Daphnia | 112 mg/l 48 h - Daphnia magna |
|--------------|-------------------------------|

|                    |                |
|--------------------|----------------|
| EC50 72h algae (1) | 101 mg/l EyC50 |
|--------------------|----------------|

|                    |                                      |
|--------------------|--------------------------------------|
| EC50 72h algae (2) | 118 mg/l EbC50, 48 h - P.subcapitata |
|--------------------|--------------------------------------|

#### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>) (14807-96-6)

|             |                  |
|-------------|------------------|
| LC50 fishes | 89.581 - 110 g/l |
|-------------|------------------|

|              |            |
|--------------|------------|
| EC50 Daphnia | 36.812 g/l |
|--------------|------------|

|                    |           |
|--------------------|-----------|
| EC50 72h algae (1) | 7.203 g/l |
|--------------------|-----------|

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### 12.2. Persistence and degradability

#### Rhizopon AA Tablets

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

#### 4-(indol-3-yl)butyric acid (133-32-4)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Readily biodegradable (Modified Sturm test; OECD 301B). |
|-------------------------------|---|

### 12.3. Bioaccumulative potential

#### Rhizopon AA Tablets

|                           |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No data available. |
|---------------------------|--------------------|

#### 4-(indol-3-yl)butyric acid (133-32-4)

|                           |  |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
|---------------------------|--|

#### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>) (14807-96-6)

|         |                     |
|---------|---------------------|
| Log Pow | -9.4 @ 25 °C / pH 7 |
|---------|---------------------|

### 12.4. Mobility in soil

#### Rhizopon AA Tablets

|                |   |
|----------------|---|
| Ecology - soil | No supplementary information available. |
|----------------|---|

### 12.5. Results of PBT and vPvB assessment

#### Rhizopon AA Tablets

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

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

## SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

| ADR                                     | IMDG           | IATA           | RID            |
|---|----------------|----------------|----------------|
| <b>14.1. UN number</b>                  |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

# Rhizopon AA Tablets

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### Air transport

Not applicable

### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### For the following substances of this mixture a chemical safety assessment has been carried out

4-(indol-3-yl)butyric acid

## SECTION 16: Other information

### Indication of changes:

Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.

| Section | Changed item  | Change   | Comments |
|---------|---|----------|----------|
|         | Supersedes  | Modified |          |
|         | Revision date   | Modified |          |
| 1.1     | Trade name  | Modified |          |
| 2.1     | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified |          |
| 2.2     | Hazard pictograms (CLP)   | Modified |          |
| 2.2     | Hazard statements (CLP)   | Modified |          |

### Abbreviations and acronyms:

|       |   |
|-------|---|
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE   | Acute Toxicity Estimate   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DNEL  | Derived-No Effect Level   |
| EC50  | Median effective concentration  |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| PBT   | Persistent Bioaccumulative Toxic  |
| PNEC  | Predicted No-Effect Concentration   |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |

# Rhizopon AA Tablets

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|      |  |
|------|--|
| STP  | Sewage treatment plant                   |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources : ECHA (European Chemicals Agency). zRMS Nederland (REGULATION (EC) No 1107/2009).

Other information : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4   |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2   |
| Repr. 2                             | Reproductive toxicity, Category 2   |
| H302                                | Harmful if swallowed.   |
| H319                                | Causes serious eye irritation.  |
| H361fd                              | Suspected of damaging fertility. Suspected of damaging the unborn child.                  |
| EUH401                              | To avoid risks to human health and the environment, comply with the instructions for use. |
| Full text of use descriptors        |   |
| PC27                                | Plant protection products   |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |        |                    |
|---|--------|--------------------|
| Eye Irrit. 2  | H319   | Calculation method |
| Repr. 2   | H361fd | Calculation method |

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*