



## Safety Data Sheet

Safety Data Sheet according to Reg. (EU) No 453/2010

**Product name:** Preforma® Plant Plug/ Preforma® Box Plug

**Revision Date:** June 2018

### 1. Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product name

Preforma® Plant Plug/ Preforma® Box Plug

#### 1.2 Intended use

Commercial plant propagation substrate/ plant plug

#### 1.3 Company Identification

Jiffy Products International BV,  
Lindsedijk 20A,  
3336LE Zwijndrecht.

#### 1.4 Emergency Telephone Number

+31 78 2062200

### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

This product does not have to be classified according to the regulations (EC) No 1272/2008 (CLP/GHS)

#### 2.2 Label elements

This product does not have to be labelled according to the regulations (EC) No 1272/2008 (CLP/GHS)

### 3. Composition/information on Ingredients

#### 3.2 Mixture

This product is a mixture of Peat and/or Coir and/or Fibres, Fertiliser, Inert Polymer, Water

### 4. First-aid Measures

#### 4.1 Description of first aid measures

**Ingestion:** Rinse mouth. Consult a physician if necessary.

**Eye Contact:** Rinse eyes thoroughly with water. If eye irritation persists, consult a specialist.

**Skin contact:** Wash skin with water.

**Inhalation:** Not applicable.

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

Aside from the information found under Description of first aid measures (above), no additional symptoms and effects are anticipated.

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

Aside from the information found under Description of first aid measures (above), no additional immediate medical attention and special treatment are anticipated.

## 5. Firefighting Measures

### 5.1 Extinguishing Media

**Suitable extinguishing media:** Water, CO<sub>2</sub>

**Unsuitable extinguishing media:** Not known

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

No special hazards known

### 5.3 Advice for firefighters

No special measures required

## 6. Accidental Release Measures

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

No special measures required.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Sweep or pick up and dispose according section 13 when not usable anymore.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

No specific handling requirements / precautions.

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

Store in original packaging away from direct sunlight and frost. Ideal conditions of less than 10°C and darkness will prolong the product life before use.

Keeping the plant plugs longer than the recommended storage times could lead to a change in the nutrient condition or pH of the substrate.

No additional safety hazards applicable due to storage outside of these recommendations. Fresh, wet plant plugs starts decomposing in closed packaging. Any vapour formed inside pallets could be formed and will be released when package is opened. Avoid breathing that vapour.

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### 8. Exposure Controls / Personal Protection

#### 8.1 Control parameters

No exposure limits known. No special measures required.

#### 8.2 Exposure controls

**Engineering controls:** No special measures required

**Personal protection:**

**Eye/Face protection:** No special precautions necessary.

**Skin protection:** No special precautions necessary.

**Respiratory protection:** No special precautions necessary.

### 9. Physical and Chemical Properties

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

Appearance:

Physical state: Solid

Colour: Brown

Odour: Soil

Odour threshold: Not applicable

pH: 4.0 – 6.5

Melting point: Not applicable

Freezing point: <0 °C

Initial boiling point and boiling range: Not applicable

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits: Not applicable

Vapour pressure: Not applicable

Vapour density: Not applicable

Relative density: Not applicable

Solubility(ies): Insoluble

Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: No test data available

Viscosity: Not applicable

Explosive properties: Not applicable

Oxidising properties: Not applicable

#### 9.2 Other information

EC: <0.1-1.5 mS/cm (1:1.5 method)

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### 10. Stability and Reactivity

#### 10.1 Reactivity

Stable under normal conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions. See section 7.

#### 10.3 Possibility of hazardous reactions

No reactivity hazards

#### 10.4 Conditions to avoid

High temperatures, frost and direct sunlight during storage. See section 7.

#### 10.5 Incompatible Materials

None known.

#### 10.6 Hazardous decomposition products

Tests were performed in accordance with the CEN norm EN 13432, with the purpose to study whether composting of Preforma plant plugs leaves any residuals, such as metabolites, non-degraded components and inorganic components that exert a negative effect on the environment.

Potential effects were studied on the germination and plant growth of summer barley plants. The products passed the test, with the conclusion:

**The Preforma plant plug/ Box Plug compost easily fulfilled the criteria.**

Potential effects were studied on the germination and plant growth of cress. The products passed the test, with the conclusion:

**The Preforma plant plug/ Box Plug compost easily fulfilled the criteria.**

### 11. Toxicological Information

#### 11.1 Information on toxicological effects

**Acute toxicity:** No acute toxicity known.

**Skin irritation:** No irritating effects known.

**Eye irritation:** No irritating effects known.

### 12. Ecological Information

#### 12.1 Toxicity

Product is not known as dangerous to aquatic organisms.

#### 12.2 Persistence and degradability

Preforma plant plug material was evaluated for disintegration in a pilot-scale aerobic composting test, in accordance with the requirements mentioned in EN 13432 and ASTM D6400-04.



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**Conclusion:** The plant plugs disintegrate completely in a pilot-scale composting of 12 weeks.

### 12.3 Bioaccumulative potential

Does not bioaccumulate.

### 12.4 Mobility in soil

No mobility in soil.

### 12.5 Results of PBT and vPvB assessment

Not applicable.

### 12.6 Other adverse effects

No other adverse effects.

## 13. Disposal Considerations

### 13.1 Waste treatment methods

**Surplus / used product:** can be composted/disposed of without special requirements.

**Packaging waste :** dispose of via registered waste contractor or re-cycle components where applicable.

## 14. Transport Information

### 14.1. UN number

Not classified

### 14.2. UN proper shipping name

Not classified

### 14.3. Transport hazard class(es)

Not classified

### 14.4. Packing group

Not classified

### 14.5. Environmental hazards

Not additional information available.

### 14.6. Special precautions for user

No special precautions

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

Not applicable.



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### 15. Regulatory Information

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

No regulations/legislation specific for the substance or mixture.

#### 15.2 Chemical safety assessment

No chemical safety assessment is carried out for this product.

### 16. Other Information

There are no relevant hazard statements or safety phrases for this product.

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.