

Product name: **PLANTELLA TABS for orchids**  
Creation date: **30.10.2014** · Revision: **27.7.2022** · Version: **1**

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

### 1.1. Product identifier

Product name

**PLANTELLA TABS for orchids**



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

Relevant identified uses

Fertilizer in form of effervescent tablets

Uses advised against

No information.

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

Manufacturer

UNICHEM D.O.O.  
Address: Sinja Gorica 2, 1360 Vrhnika, Slovenia  
Phone: +386 1 755 81 50  
Fax: +386 1 755 81 55  
www.unichem.si  
E-mail: unichem@unichem.si

### 1.4. Emergency telephone number

112

+386 1 755 81 50

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Eye Irrit. 2; H319 Causes serious eye irritation.  
STOT SE 3; H335 May cause respiratory irritation.

### 2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Warning**

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing dust.

P264 Wash hands thoroughly after handling.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with national regulation.

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### 2.2.2. Contains:

citric acid

### 2.2.3. Special provisions

Special hazards are not known or expected.

### **2.3. Other hazards**

The substances in the mixture are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Product description**

NPK FERTILIZER: N:P2O5:K2O = 5 – 12 – 6 + 0,015% Cu (COPPER), 0,12% Fe (IRON), Mn (MANGAN) 0,06%, Mo (MOLIBDEN) 0,01%

### **3.1. Substances**

For mixtures see 3.2.

### **3.2. Mixtures**

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
citric acid	77-92-9 201-069-1 607-750-00-3	<40	Eye Irrit. 2; H319 STOT SE 3; H335		01-2119457026-42
Sodium hydrogencarbonate	144-55-8 205-633-8 -	<20	not classified		-
copper sulphate pentahydrate	7758-99-8 231-847-6 029-023-00-4	<0,025	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 [M=10] Aquatic Chronic 1; H410	oral: ATE = 481 mg/kg bw	-

## SECTION 4. FIRST AID MEASURES

### **4.1. Description of first aid measures**

#### General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Drink water or milk. In case of doubt or if feeling unwell seek medical help.

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

#### Inhalation

Can cause irritation of respiratory system.

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#### Skin contact

Contact with skin may cause irritation (redness, itching).

#### Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

#### Ingestion

May cause nausea/vomiting and diarrhea.

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

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## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam.  
Fire extinguishing powder.  
Sand.

#### Unsuitable extinguishing media

Full water jet.

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

#### Hazardous combustion products

In case of heating harmful vapours/gases can be generated. In the event of fire the following is released: nitrogen oxides (NO<sub>x</sub>).  
Ammonia.

### 5.3. Advice for firefighters

#### Protective actions

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#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation. Evacuate personnel to safe areas, away from the direction of the wind.

#### 6.1.2. For emergency responders

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### 6.2. Environmental precautions

If accidental large entry into water or ground occurs, inform responsible authorities.

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

#### 6.3.1. For containment

-

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#### 6.3.2. For cleaning up

Pick up mechanically and remove it in accordance with regulation.

#### 6.3.3. Other information

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#### **6.4. Reference to other sections**

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation.

##### **Measures to prevent aerosol and dust generation**

Prevent dusting.

##### **Measures to protect the environment**

-

#### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe dust.

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

#### 7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Avoid high temperatures. Keep away from acids and bases. Keep away from moisture and water. Do not store with combustible materials. Keep out of the reach of children. Protect from open fire, heat and direct sunlight. On farm, ensure that the products are not stored near hay, straw, grain, diesel, oil etc

#### 7.2.2. Packaging materials

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#### 7.2.3. Requirements for storage rooms and vessels

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#### 7.2.4. Storage class

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#### 7.2.5. Further information on storage conditions

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

#### **Recommendations**

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#### **Industrial sector specific solutions**

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1. Control parameters**

#### 8.1.1. Occupational exposure limit values

No information.

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### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

### 8.1.3. DNEL/DMEL values

No information.

### 8.1.4. PNEC values

No information.

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering control

#### **Substance/mixture related measures to prevent exposure during identified uses**

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not eat, drink or smoke while working.

#### **Technical measures to prevent exposure**

Provide good ventilation and local exhaust in areas with increased concentration.

### 8.2.2. Personal protective equipment

#### **Eye and face protection**

At strong dust raising wear tightly sealed safety glasses (EN 166).

#### **Hand protection**

In case of prolonged exposure, wear protective gloves (EN 374).

#### **Appropriate materials**

Material	Thickness	Penetration Time	Remark
PVC			

#### **Skin protection**

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

#### **Respiratory protection**

Not needed under normal use and adequate ventilation. In case of dust formation wear appropriate protective mask - mask with particle filter. Mask with dust filter (P2) or FFP2 (EN 149).

#### **Thermal hazards**

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### 8.2.3. Environmental exposure controls

-

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

-	<b>Physical state:</b>	solid
-	<b>Colour:</b>	violet
-	<b>Odour:</b>	characteristic

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### Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	No information.
-	<b>Flash point</b>	No information.
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	No information.
-	<b>Explosion limits (vol%)</b>	No information.
-	<b>Vapour pressure</b>	No information.
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	No information.
-	<b>Solubility</b>	<b>Water:</b> Soluble
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	No information.
-	<b>Decomposition temperature</b>	No information.
-	<b>Viscosity</b>	No information.
-	<b>Explosive properties</b>	No information.
-	<b>Oxidising properties</b>	No information.
-	<b>Particle characteristics</b>	No information.

#### 9.2. Other information

-	<b>Remarks:</b>	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

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### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

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### 10.4. Conditions to avoid

No special precautions required. Consider the directions for use and storage.

### 10.5. Incompatible materials

Combustible materials. Reducing agents.  
Acids. Bases. Powdered metals.

### 10.6. Hazardous decomposition products

At high temperature vapours dangerous for health are released.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### (a) Acute toxicity

No information.

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(b) Skin corrosion/irritation

No information.

(c) Serious eye damage/irritation

**Additional information:** Causes serious eye irritation.

(d) Respiratory or skin sensitisation

No information.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

**Additional information:** May cause respiratory irritation.

(i) STOT-repeated exposure

No information.

(j) Aspiration hazard

No information.

**11.2. Information on other hazards**

11.2.1. Endocrine disrupting properties

No information.

11.2.2. Other information

No information.

## SECTION 12. ECOLOGICAL INFORMATION

**12.1. Toxicity**

12.1.1. Acute (short-term) toxicity

No information.

12.1.2. Chronic (long-term) toxicity

No information.

**12.2. Persistence and degradability**

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

No information.

**12.3. Bioaccumulative potential**

12.3.1. Partition coefficient

No information.

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#### 12.3.2. Bioconcentration factor (BCF)

No information.

#### **12.4. Mobility in soil**

##### 12.4.1. Known or predicted distribution to environmental compartments

No information.

##### 12.4.2. Surface tension

No information.

##### 12.4.3. Adsorption/Desorption

No information.

#### **12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### **12.6. Endocrine disrupting properties**

No information.

#### **12.7. Additional information**

##### **For product**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## SECTION 13. DISPOSAL CONSIDERATIONS

#### **13.1. Waste treatment methods**

##### 13.1.1. Product / Packaging disposal

###### **Waste chemical**

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

###### **Packaging**

Deliver completely emptied containers to approved waste disposal authorities.

##### 13.1.2. Waste treatment-relevant information

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##### 13.1.3. Sewage disposal-relevant information

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##### 13.1.4. Other disposal recommendations

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## SECTION 14. TRANSPORT INFORMATION

#### **14.1. UN number or ID number**

Not applicable.

#### **14.2. UN proper shipping name**

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

#### **14.3. Transport hazard class(es)**

Not applicable.

#### **14.4. Packing group**

Not applicable.

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#### 14.5. Environmental hazards

NO.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

#### 15.1.2. Special instructions

Water hazard class 2 (self-assessment): hazardous for water.

### 15.2. Chemical Safety Assessment

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

## SECTION 16. OTHER INFORMATION

#### Indication of changes

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#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue

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EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

#### Key literature references and sources for data

MSDS, PLANTELLA TABS for orchids, UNICHEM d.o.o, date: 20.2.2010

#### List of relevant H phrases

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

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- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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