

**SAFETY DATA SHEET** according to Regulation (EC) 2015/830

Version 1 ZA - EN

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## **SECTION 1. Identification of the Substance/Mixture and of the Company/Undertaking**

### **1.1 Product identifiers**

**Trade name and/or other names and company product codes by which the mixture can be identified**

FytoSave<sup>®</sup>

**Code name:** Fyto11

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

#### **1.2.1 Relevant identified uses**

Preventative biofungicide for stimulation of defenses on crops as specified

#### **1.2.2 Uses advised against**

Do not use for any other purpose.

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

FytoFend S.A.

Rue Phocas Lejeune, 25/6

5032 Isnes

Belgium

Telephone: + 32 (0) 81.728.840

E-mail address: info@FytoFend.com

Web: www.FytoFend.com

### **1.4 Emergency telephone number**

#### **National Emergency Telephone Numbers**

Poison Information Centre

0861 555 777

Availability

24h

Time Zone

UTC +2

Language(s) of the service

English

## **SECTION 2. Hazards Identification**

### **2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) no. 1272/2008**

This product is not classified as hazardous under Regulation (EC) No. 1272/2008

### **2.2 Label elements**

**Labelling according to South African Regulations**

Hazard pictograms

None

Signal Word

None

Hazard Statements

None

Precautionary Statements

Avoid direct contact with eyes and skin.

In case of accidental contact wash affected area with clean water.

Wear gloves when handling.

Wash hands before consuming food, drinking or smoking.

Do not inhale spray mist. Do not eat, drink or smoke whilst mixing or applying.

Prevent contamination of food, foodstuffs, drinking water and eating utensils.

Clean applicator before and after use.

Store in original container in a dry area, away from food and feed stuffs.

Rinse empty container three times with a volume of water equal to a

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minimum of 10% of that of the container. Add the rinsing water to the contents of the spray or mixing tank. Destroy the container, and do not use empty container for any other purpose  
Keep out of reach of children, uninformed persons and animals.  
Store the product in a cool, dry place.  
Shake container well before use.

### **2.3 Other hazards**

None known. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3. Composition/Information on Ingredients**

### **3.2 Mixtures**

#### **Description of the mixture:**

Mixture of COS-OGA and co-formulants. The active substance is listed as a Low-risk under Reg. (EC) 1107/2009 and is not classified as hazardous under Reg. (EC) 1272/2008

Chemical Name	CAS-No.	EC-No.	Index No.	Concentration (W/W)	CLP (Reg. 1272/2008) Classification
COS-OGA	-	-	-	1.02 %	Not classified
Other ingredients				to 100%	Not classified

#### **Additional information**

None

## **SECTION 4. First Aid Measures**

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

#### **General advice:**

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

#### **If swallowed:**

IF SWALLOWED: Rinse mouth. Call a POISON CENTER or a doctor.

#### **If inhaled:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or a doctor if you feel unwell.

#### **In case of skin contact:**

IF ON SKIN: Take off contaminated clothing. Wash with Plenty of Water. If skin irritation occurs: Get medical Advice. Wash contaminated clothing before reuse.

#### **In case of eye contact:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

#### **Self-protection of first aider**

No specific personal protective equipment is recommended for first aid responders.

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

The symptoms indicated in this section refer to an accidental exposure scenario

#### **If inhaled:**

Possible slight nasal irritation and discharge. No delayed effects expected.

#### **In case of skin contact:**

Possible slight transitory redness. No delayed effects expected.

#### **In case of eye contact:**

Possible slight irritation and redness. No delayed effects expected.

#### **If swallowed:**

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Possible mild gastrointestinal effects. No delayed effects expected.

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

No data available

### **SECTION 5. Firefighting Measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media:**

Water spray, CO<sub>2</sub>, foam or multi-purpose dry powder extinguishers.

##### **Unsuitable extinguishing media:**

Solid water jet.

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

No special hazards expected from combustion products.

#### **5.3 Advice for fire-fighters**

A Self-Contained Breathing Apparatus (SCBA) is recommended to avoid inhalation of dust and combustion fumes.

Fight fire in early stages only if safe to do so. Keep containers cool with water spray.

### **SECTION 6. Accidental Release Measures**

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

This product must be handled according to the rules of hygiene and safety for the manipulation of non-hazardous chemicals.

Use personal protective equipment. Avoid breathing vapours, mist or gas.

#### **6.2 Environmental precautions**

Prevent entry into drains, waters or soil. Use a neutral absorbent material to collect spillage and sweep it as much as possible.

Flush residues with water.

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

##### **For containment**

Prevent entry into drains, waters or soil. Use a neutral absorbent material to collect spillage and sweep it as much as possible.

Flush residues with water.

##### **For cleaning up**

Use a damp cloth to clean floors and other objects after removal of contaminated absorbent. Do not reintroduce into original container. Place contaminated absorbent and used cleaning materials into closable and identified containers. Treat as waste.

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

Refer to Section 8 for personal protective equipment and to Section 13 for disposal instructions.

### **SECTION 7. Handling and Storage**

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

This product must be handled according to the rules of hygiene and safety for the manipulation of non-hazardous chemicals.

Do not eat, drink or smoke when handling the product. Wash hands with water after handling. No protective equipment specifically required, as the mixture is of very low acute toxicity.

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

The mixture is stable under normal ambient conditions. Keep the product in its original container. Keep in a dark and temperate place (not below 5°C). Container must be labelled and kept closed. Store away from children, domestic animals, food, drink and animal feeding stuff.

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

Product for use as directed by the product label, every other use is hazardous.

### **SECTION 8. Exposure Control/Personal Protection**

#### **8.1 Control Parameters**

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### Components with workplace control parameters

The mixture contains no substances with Occupational Exposure Limit values.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

No specific engineering controls needed. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.2.2 Personal protection equipment

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

Avoid contact with eyes. No specific protection required

##### **Skin protection:**

Hand protection: Wear suitable protective gloves against chemicals EN 374 part 2 (disposable ones for single use) or part 3 (for repeated uses)

Body protection: Avoid contact with skin. If there is a significant potential for contact, wear suitable coveralls

##### **Respiratory protection:**

Avoid inhaling the product or its spray. No specific respiratory protection required.

#### 8.2.3 Environmental exposure controls

Follow all National and local environmental protection legislation. Refer to Section 15. Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. Refer to Section 12 and 13.

## SECTION 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

All the data contained in this section are derived from studies on the mixture unless stated otherwise.

<b>a) Appearance:</b>	Form: Homogeneous liquid with a gelatinous aspect (after shaking – before shaking 2 separated liquid phases) Colour: Beige
<b>b) Odour:</b>	Slight odour
<b>c) Odour threshold:</b>	Not determined
<b>d) pH:</b>	5.00 – 6.00 (1% dilution @ 16°C)
<b>e) Melting point/freezing point:</b>	Not determined
<b>f) Initial boiling point and boiling range:</b>	Not determined
<b>g) Flash point:</b>	Not relevant for a SL formulation
<b>h) Evaporation rate:</b>	Not relevant for a SL formulation
<b>i) Flammability (solid, gas):</b>	Not relevant for a SL formulation
<b>j) Upper/lower flammability or explosive limits:</b>	Not relevant for a SL formulation
<b>k) Vapour pressure:</b>	Not determined
<b>l) Vapour density:</b>	Not relevant for a SL formulation
<b>m) Relative density:</b>	1.15 – 1.25 (20°C)
<b>n) Solubility(ies)</b>	Completely soluble in water
<b>o) Partition coefficient: n-octanol/water:</b>	Not determined
<b>p) Auto-ignition temperature:</b>	Not determined
<b>q) Decomposition temperature:</b>	296.3°C (COS-OGA active substance)
<b>r) Viscosity:</b>	85 mPa.s to 12 mPa.s (@20°C, shear rate of 10.6 to 665 s <sup>-1</sup> , Dynamic) 88 mPa.s to 10 mPa.s (@40°C, shear rate of 10.6 to 665 s <sup>-1</sup> , Dynamic)
<b>s) Explosive properties:</b>	Not explosive
<b>t) Oxidising properties:</b>	Not oxidizing

### 9.2 Other information

None

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### SECTION 10. Stability and Reactivity

#### **10.1 Reactivity**

Non-reactive when stored in original container under normal conditions of storage and use.

#### **10.2 Chemical stability**

Slight phase separation may occur. Shake before use. Stable when stored in original container under normal conditions of storage and use.

#### **10.3 Possibility of hazardous reactions**

No hazardous reactions expected if stored in original container under normal conditions of storage and use.

#### **10.4 Conditions to avoid**

No specific conditions to avoid. Stable under normal conditions of storage and use.

#### **10.5 Incompatible materials**

Avoid contact with strong oxidizing agents, acids or bases.

#### **10.6 Hazardous decomposition products**

No dangerous products of decomposition expected

### SECTION 11. Toxicological Information

#### **11.1 Information on toxicological effects**

##### **11.1.2 Mixtures**

All the data contained in this section are derived from data on the mixture unless stated otherwise. The active substance is listed as a Low-risk under Reg. (EC) 1107/2009. No health hazards are expected.

##### **a) Acute toxicity:**

**LD<sub>50</sub> oral, rat:** > 2000 mg/kg body weight. Classification criteria not met.

**LD<sub>50</sub> dermal, rabbit:** Based on data from the active substance and the components, classification criteria not met.

**LC<sub>50</sub> inhalation, rat:** Based on data from the active substance and the components, classification criteria not met.

##### **b) Skin**

**corrosion/irritation:** Based on data from the active substance and the components, classification criteria not met.

Not Irritant.

##### **c) Serious eye**

**damage/irritation:** Based on data from the active substance and the components, classification criteria not met.

Not Irritant.

##### **d) Respiratory or skin**

**sensitization:** Based on data from the active substance and the components, classification criteria not met.

Not sensitising

##### **e) Germ cell mutagenicity:**

Based on data from the active substance and the components, classification criteria not met.

##### **f) Carcinogenicity:**

Based on data from the active substance and the components, classification criteria not met.

##### **g) Reproductive toxicity:**

Based on data from the active substance and the components, classification criteria not met.

##### **h) STOT – single**

**exposure:** Based on data from the active substance and the components, classification criteria not met.

##### **i) STOT – repeated**

**exposure:** Based on data from the active substance and the components, classification criteria not met.

##### **j) Aspiration hazard:**

Based on data from the active substance and the components, classification criteria not met.

### SECTION 12. Ecological Information

All the data contained in this section are derived from data on the mixture unless stated otherwise. The active substance is listed as a Low-risk under Reg. (EC) 1107/2009. No environmental hazards are expected.

#### **12.1 Toxicity**

**EC<sub>50</sub> fish, *Danio rerio* (96h):** 228 mg/l (COS-OGA active substance)

**EC<sub>50</sub> aquatic invertebrates, *Daphnia magna* (48h):** > 100 mg/l

**Er<sub>C50</sub> algae, *Pseudokirchneriella subcapitata* (72h):** > 100 mg/l

**EC<sub>50</sub> earthworms, *Eisenia fetida* (4w) :** > 1000 mg test item/kg dry soil

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<b>LD<sub>50</sub> honey bees oral, <i>Apis mellifera</i> (48h)</b>	> 10 µg COS-OGA/bee
<b>LD<sub>50</sub> honey bees contact, <i>Apis mellifera</i> (48h)</b>	> 12.5µg COS-OGA/bee
<b><u>12.2 Persistence and degradability:</u></b>	Not expected to be persistent
<b><u>12.3 Bioaccumulative potential:</u></b>	Not expected to have bioaccumulation potential
<b><u>12.4 Mobility in soil:</u></b>	Not determined
<b><u>12.5 Results of PBT and vPvB assessment:</u></b>	Does not fulfil the criteria for classification as PBT or vPvB.
<b><u>12.6 Other adverse effects:</u></b>	None known.

## SECTION 13. Disposal Considerations

### **13.1 Waste treatment methods**

Disposal of waste product, contaminated packaging materials and any excess diluted spray should be in accordance with all relevant national legislation.

For the handling and management of accidental release, follow the information given under Section 6 and 7.

## SECTION 14. Transport Information

The mixture is not classified as hazardous for transport

<b><u>14.1 UN number</u></b>	-
<b><u>14.2 UN Proper shipping name</u></b>	-
<b><u>14.3 Transport hazard class(es)</u></b>	-
<b><u>14.4 Packing group</u></b>	-
<b><u>14.5 Environmental hazards</u></b>	-
<b><u>14.6 Special Precautions for User</u></b>	-
<b><u>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</u></b>	-

## SECTION 15. Regulatory Information

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

#### **EU Regulations**

REGULATION (EC) No 1107/2009 of The European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

COMMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### **National Regulations/legislation:**

Refer to applicable national classification, packaging and labelling legislation.

### **15.2 Chemical Safety Assessment**

No Chemical Safety Assessment under Regulation (EC) 1907/2006 is required and has been carried out.

## SECTION 16. Other Information

### **a) History of changes:**

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The numbering system of this SDS is incremental in order to identify easily new versions and/or revisions. An increment by a unit identifies a new version requiring provision of updates according to Article 31(9) of REACH, while an increment by a decimal identifies minor changes (typo, small improvements, formatting...).

Revisions indicated by a decimal point are of no effect on the risk management measures or information on hazards  
Paragraphs changes are indicated by the symbol '||' in the margin.

Differences between this version and the previous one: This is the first version of this document under this format

**b) Abbreviations and acronyms used:**

STOT: Specific Target Organ Toxicity

**c) Key literature references and sources for data:**

FytoFend S.A.  
Suppliers' Data Sheets  
ECHA Guidance on the compilation of safety data sheets  
ECHA guidance on the Application of the CLP Criteria

**d) Procedure used to classify the mixture according to Article 9 Regulation (EC) 1272/2008 [CLP]**

Classification according to Regulation (EC) 1272/2008	Classification procedure
This product has not been classified as hazardous under Regulation (EC) 1272/2008.	On the basis of study results and the calculation method from component information

**e) Relevant Hazard statements and precautionary statements not written out in full under Sections 2 to 15:**

None

**f) Training advice:**

General occupational hygiene and safety practice training recommended.

**g) Further information:**

The information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheet (SDS) is a complement to the technical brochure of the product but does not replace it. The information and data presented are based on our knowledge of the product as of the data quoted above.

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