

SAFETY DATA SHEET according to Regulation (EU) 2020/878

Version 1 ZA - EN

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

1.1 Product identifier

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

Fyto-11

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 (Pty) Ltd.

Block A Inanda Greens Business Park,

98 Albertyn Avenue, Sandton, 2196

South Africa

Telephone: +27 14 940 0083

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 Regulation (EC) no. 1272/2008

Hazard pictograms

None

Signal Word

None

Hazard Statements

None

Precautionary Statements

General -

Prevention -

Response -

Storage -

Disposal -

Supplemental Hazard Information:

Avoid direct contact with eyes and skin.

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

Wear gloves when handling.

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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 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:

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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:

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, CO₂, 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 firefighters

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.

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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

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.

- | | |
|---|--|
| a) Physical state: | Homogeneous liquid with a gelatinous aspect (after shaking – before shaking 2 separated liquid phases) |
| b) Colour: | Beige |
| c) Odour: | Slight odour |
| d) Melting point/freezing point: | Not determined |
| e) Boiling point or initial boiling point and boiling range: | Not determined |
| f) Flammability: | Not relevant for a SL formulation |
| g) Lower and upper explosion limit: | Not relevant for a SL formulation – not explosive |
| h) Flash point: | Not relevant for a SL formulation |
| i) Auto-ignition temperature: | Not relevant for a SL formulation |
| j) Decomposition temperature: | 296.3°C (COS-OGA active substance) |
| k) pH: | 5.00 – 6.00 (1% dilution @ 16°C) |
| l) Kinematic viscosity: | 85 mPa.s to 12 mPa.s (@20°C, shear rate of 10.6 to 665 s ⁻¹ , Dynamic)
88 mPa.s to 10 mPa.s (@40°C, shear rate of 10.6 to 665 s ⁻¹ , Dynamic) |
| m) Solubility: | Completely soluble in water |
| n) Partition coefficient: n-octanol/water: | Not determined |
| o) Vapour pressure: | Not determined |
| p) Density and/or relative density: | 1.15 – 1.25 (20°C) |
| q) Relative vapour density: | Not determined |
| r) Particle characteristics: | Not relevant for a SL formulation |

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9.2 Other information

None

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 hazard classes as defined in Regulation (EC) No 1272/2008

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:

LD₅₀ oral, rat:

> 2000 mg/kg body weight. Classification criteria not met.

LD₅₀ dermal, rabbit:

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

LC₅₀ inhalation, rat:

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

b) Skin

corrosion/irritation:

Not Irritant.

c) Serious eye

damage/irritation:

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

d) Respiratory or skin

sensitization:

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

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.

Likely routes of exposure and related long and short term symptoms and health effects:

Inhalation: There is a low risk of exposure by inhalation.

Short-term symptoms and effects:

Possible slight nasal irritation and discharge.

Long-term symptoms and effects:

No evidence of long-term effects after prolonged or repeated exposure.

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Eye contact: There is a low risk of exposure by eye contact.

Short-term symptoms and effects:

Possible slight transitory redness.

Long-term symptoms and effects:

No evidence of long-term effects after prolonged or repeated exposure.

Skin contact: There is a risk of exposure by skin contact.

Short-term symptoms and effects:

Possible slight transitory redness.

Long-term symptoms and effects:

No evidence of long-term effects after prolonged or repeated exposure.

Ingestion: There is a very low risk of accidental exposure by ingestion.

Short-term symptoms and effects:

Possible mild gastrointestinal effects.

Long-term symptoms and effects:

No evidence of long-term effects after prolonged or repeated exposure.

Information on other hazards

None

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

EC₅₀ fish, <i>Danio rerio</i> (96h):	228 mg/l (COS-OGA active substance)
EC₅₀ aquatic invertebrates, <i>Daphnia magna</i> (48h):	> 100 mg/l
ErC₅₀ algae, <i>Pseudokirchneriella subcapitata</i> (72h):	> 100 mg/l
EC₅₀ earthworms, <i>Eisenia fetida</i> (4w) :	> 1000 mg test item/kg dry soil
LD₅₀ honey bees oral, <i>Apis mellifera</i> (48h)	> 10 µg COS-OGA/bee
LD₅₀ honey bees contact, <i>Apis mellifera</i> (48h)	> 12.5µg COS-OGA/bee

12.2 Persistence and degradability: Not expected to be persistent

12.3 Bioaccumulative potential: Not expected to have bioaccumulation potential

12.4 Mobility in soil: Not determined

12.5 Results of PBT and vPvB assessment: Does not fulfil the criteria for classification as PBT or vPvB.

12.6 Endocrine disrupting properties: None known.

12.7 Other adverse effects: 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

<u>14.1 UN number or ID number</u>	-
<u>14.2 UN Proper shipping name</u>	-
<u>14.3 Transport hazard class(es)</u>	-
<u>14.4 Packing group</u>	-
<u>14.5 Environmental hazards</u>	-

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14.6 Special Precautions for User -

14.7 Maritime transport in bulk according to IMO instruments -

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 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning 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:

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 (Reg. (EU) 2020/878).

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

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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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