

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

Seraphin

Revision Date 01-Dec-2020 Version 4 Product No FNG56818-44

MCW 710 SC / ADM.00153.F.1.B\*\*\* 9502074\*\*\* Publish Date 01-Dec-2020

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

### 1.1. Product identifier

Seraphin

Pure substance/mixture Mixture

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

Fungicide; Professional use\*\*\* **Recommended Use** No information available Uses advised against

1.3. Details of the supplier of the safety data sheet

**Supplier Address** ADAMA Agricultural Solutions UK Ltd

Third Floor East

1410 Arlington Business Park

Theale READING RG7 4SA

Tel: 01635 860555 Fax: 01635 861555

For further information, please contact

ukenquiries@adama.com **Email address** 

1.4. Emergency telephone number

**Emergency Telephone** National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

# **Section 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

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

**Acute toxicity - Oral** Category 4 - (H302) Category 2 - (H361d) **Reproductive Toxicity Hazardous to the Aquatic** Category 1 - (H410)

**Environment - Chronic Hazard** 

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### 2.2. Label elements

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

**Hazard pictograms** 



Signal word Warning

Hazard Statements H302 - Harmful if swallowed

H361d - Suspected of damaging the unborn child H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

EUH208 - Contains 1,2-Benziosothiazolin-3-one May produce an allergic reaction.

Additional phrases for PPP SP1 - 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).

2.3. Other hazards

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Azoxystrobin	10-12	131860-33-8	603-524-3***	607-256-00-8	Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10 M=10***	-
Tebuconazole	16-20	107534-96-3	403-640-2	603-197-00-7	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=10	-

Full text of H- and EUH-phrases: see section 16

# **Section 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

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a physician.

**Skin Contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Ingestion** Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider**Use personal protective equipment as required.

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

Symptoms None known.

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

# Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

# **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# **Unsuitable Extinguishing Media**

No information available.

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

No specific hazard known.

### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

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

# **Personal precautions**

Use personal protective equipment as required.

### For emergency responders

Use personal protection recommended in Section 8.

# 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

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

Take up mechanically, placing in appropriate containers for disposal.

### 6.4. Reference to other sections

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### Other Information

See also section 8,13

# Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

### 7.3. Specific end use(s)

### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

#### 8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Hand Protection Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact

(recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm).

**Body Protection** Use suitable protective clothing and equipment if required, such as safety goggles certified

to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water

repellent woven coverall with 65% polyester and 35 % cotton.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

<u>Property</u> <u>Values</u> <u>Method</u> <u>Remarks</u>

**Appearance** 

Physical state : liquid Color : white

characteristic Odor

**Odor threshold** No data available

CIPAC MT 75.3 5.5-6.5 solution (1%) pН

Melting point/freezing point °C No data available

Boiling point/boiling range °C : No data available

EEC A.9 Flash point °C >118 Not determined

**Evaporation rate** Not Applicable Flammability (solid, gas) Not Applicable Upper/lower flammability or No data available

explosive limits

Vapor pressure kPa No data available Vapor density No data available

Relative density : 1.08-1.10 EEC A.3 20.3 °C

Solubility(ies) mg/l No data available

**Partition Coefficient** (n-octanol/water) Log Pow

**EEC A.15** Autoignition temperature °C : 500

Decomposition temperature °C : No data available

**OECD 114** Kinematic viscosity mm2/s 40 °C: 153.5

: Not an explosive **Explosive properties Oxidizing properties** : No data available

9.2. Other information

: Not Applicable Bulk density g/ml Surface tension mN/m : Not Applicable

# Section 10: STABILITY AND REACTIVITY

See Section 12 for more

information

#### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

# 10.5. Incompatible materials

No information available

# 10.6. Hazardous decomposition products

None under normal use conditions.

# **Section 11: TOXICOLOGY INFORMATION**

# 11.1. Information on toxicological effects

**Acute toxicity** 

**Values** Species Method Remarks OECD 423 Oral LD50 mg/kg 300-2000 Rat

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 Dermal LD50 mg/kg
 : >2000
 Rat
 OECD 402

 Inhalation LC50 mg/l/4h
 : >4.79
 Rat
 OECD 403

Maximum attainable concentration

Skin corrosion/irritation: Non-irritating to the skinRabbitOECD 404Serious eye damage/eye irritation: Not irritating to eyesRabbitOECD 405Respiratory/skin sensitization: Not a skin sensitizerGuinea pigOECD 406

**Chronic toxicity** 

Germ cell mutagenicity

**Chemical Name** 

Azoxystrobin : Not classified\*\*\*
Tebuconazole : Not classified

Carcinogenicity

Chemical Name

Azoxystrobin : Not Carcinogenic
Tebuconazole : Not Carcinogenic\*\*\*

Reproductive toxicity .

**Chemical Name** 

Azoxystrobin : Not toxic for the reproductive system

Tebuconazole : H361d - Suspected of damaging the unborn child

STOT - single exposure

**Chemical Name** 

Azoxystrobin : No data available\*\*\*
Tebuconazole : Not classified\*\*\*

STOT - repeated exposure

Chemical Name

Azoxystrobin : No data available Tebuconazole : Not classified\*\*\*

Aspiration hazard Chemical Name

Azoxystrobin : No data available Tebuconazole : Not classified\*\*\*

# **Section 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

### **Aquatic toxicity**

Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l: 5.4Oncorhynchus mykissOECD 203Crustacea 48-hour EC50 mg/l: 2.15Daphnia magnaOECD 202

Algae 72-hour EC50 mg/l : 1.34 P. subcapitata OECD 201 Static

Other plants EC50 mg/l :

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/I : No data available
Crustacea NOEC mg/I : No data available
Algae NOEC mg/I : No data available
Other plants NOEC mg/I : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

**Chemical Name** 

Not available

Azoxystrobin : >2000 Bobwhite quail Tebuconazole : 1988 Bobwhite quail

Bees Oral LD50 µg/bee

**Chemical Name** 

Azoxystrobin : >25
Tebuconazole : 83.05 Oral

12.2. Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

Water DT50 days Chemical Name

Azovyctrobia

Azoxystrobin : 205 pH 6.4-7.5 ;20 ° C

Tebuconazole : 365

Soil DT50 days Chemical Name

Azoxystrobin : 262 20 °C

Tebuconazole : 34.8

Biodegradation Chemical Name

Azoxystrobin : \*\*\* \*\*\*

Tebuconazole : Not readily biodegradable OECD 301B

12.3. Bioaccumulative potential

**Partition Coefficient** 

(n-octanol/water) Log Pow

**Chemical Name** 

Azoxystrobin : 2.7 OECD 107 pH 5; 20 ° C

Tebuconazole : 3.7

**Bioconcentration factor (BCF)** 

**Chemical Name** 

Azoxystrobin : ...\*\*\* No data available

Tebuconazole : 78

12.4. Mobility in soil

Adsorption/Desorption <u>Values</u> <u>Method</u> <u>Remarks</u>
Chemical Name

Azoxystrobin : 2.5 KOC
Tebuconazole : 769 KOC

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. Other adverse effects

No information available.

# **Section 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

# **Section 14: TRANSPORTATION INFORMATION**

IMDG/IMO

**14.1 UN/ID No \*** 3082

**14.2 Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Azoxystrobin

Tebuconazole )

14.3 Hazard Class914.4 Packing GroupIII14.5 Marine pollutantYes14.6 Special precautions for user

RID/ADR

**14.1 UN/ID No \*** 3082

**14.2 Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Azoxystrobin

Tebuconazole )

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special precautions for user14.7 Tunnel restriction code-

ICAO/IATA

**14.1 UN/ID** No \* 3082

**14.2 Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Azoxystrobin

Tebuconazole )

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes

14.6 Special precautions for user

14.7 Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

**IBC Code** 



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

# **Section 15: REGULATORY INFORMATION**

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

Trade name Registration number Registration date

Not Applicable Not Applicable Not Applicable

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#### 15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

# **Section 16: OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H331 - Toxic if inhaled

H361d - Suspected of damaging the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### **List of Acronyms**

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

#### This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Revision Note** 

Changes made to the last version are labeled with this sign \*\*\*.

# Process of classification evaluation in accordance with CLP regulation.

### Classification of the mixture

H302 - Harmful if swallowed

H361d - Suspected of damaging the unborn child

H410 - Very toxic to aquatic life with long lasting effects\*\*\*

### Classification procedure

Classification based on test data Classification based on Calculation method Classification based on Calculation method\*\*\*

#### **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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**