

SAFETY DATA SHEET

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

Seraphin

Revision date 12-May-2022 Version 4.01 Supersedes Date: 15-May-2016

Product Code(s)

FNG56818-44 9502074

Print Date 12-May-2022 ADM.00153.F.1.B

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Seraphin

Other means of identification

Synonyms Azoxystrobin 120 Tebuconazole 200 SC

Pure substance/mixture Mixture

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

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

1.3. Details of the supplier of the safety data sheet

<u>Supplier</u> 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

E-mail address ukenquiries@adama.com

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]

classification according to Regulation (20) No. 1212/2000 [CE1]	
Acute toxicity - Oral	Category 4 - (H302)
Reproductive toxicity	Category 2 - (H361d)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

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

Contains Tebuconazole

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 EUH208 - Contains (1,2-Benzisothiazolin-3-one). May produce an allergic reaction

EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

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

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information None known.

Persistent Organic Pollutants Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
Tebuconazole	107534-96-3	403-640-2	603-197-00-7	16-20	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic		M=1 M=10	No data available

					Chronic 1 (H410)			
Azoxystrobin	131860-33-8	603-524-3	607-256-00-8	10-12	Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		M=10 M=10 ATE = 0.7 mg/L (dusts/mists)	No data available
1,2-Benzisothiazolin-3- one	2634-33-5	220-120-9	613-088-00-6	<0.03	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	Skin Sens. 1 :: C>=0.05%		01-212076154 0-60-XXXX

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contactWash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a doctor.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Small Fire Dry chemical, CO2, water spray or regular foam

Large Fire Do not scatter spilled material with high pressure water streams

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Dyke fire-control water for later disposal

Water spray, fog or regular foam

Move containers from fire area if you can do it without risk

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

A fire or explosion Some may burn but none ignite readily

Some may be transported hot

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Health risk Runoff from fire control may cause pollution

Some liquids produce vapours that may cause dizziness or suffocation

Spill or leak statements Do not touch or walk through spilled material

Stop leak if you can do it without risk

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Incineration If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 metres (1/2 mile) in all

directions; also, consider initial evacuation for 800 metres (1/2 mile) in all directions

Spill Increase, in the downwind direction, as necessary, the isolation distance shown under "Public safety"

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove

contaminated clothing and shoes.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

7.3. Specific end use(s)

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure LimitsThis product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

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Chemical name	United Kingdom			
Propane-1,2-diol	TWA: 150 ppm			
57-55-6	TWA: 474 mg/m ³			
	TWA: 10 mg/m ³			
	STEL: 450 ppm			
	STEL: 1422 mg/m ³			
	STEL: 30 mg/m ³			
Sodium hydroxide	STEL: 2 mg/m ³			
1310-73-2				

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

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).

Skin and body protectionUse 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 Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property Values Method Remarks

Appearance Physical state

Liquid Colour white characteristic Odour

Odour threshold No data available

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

No data available Melting point / freezing point °C No data available

Boiling point / boiling range °C

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

FFC A 3

OECD 114

Evaporation rate No data available Flammability (solid, gas) Not applicable Upper/lower flammability or No data available explosive limits

Vapour pressure kPa No data available

Vapour density No data available Relative density 1.08-1.10

Solubility(ies) mg/l No data available

Partition coefficient Log Pow

EEC A.15 Autoignition temperature °C 500

Decomposition temperature °C No data available

Kinematic viscosity mm2/s 40 °C: 153.5

Surface tension No data available **Particle Size** Not applicable

9.2. Other information

Bulk density g/ml : Not applicable

9.2.1. Information with regards to physical hazard classes **Explosive properties** : Not an explosive : No data available Oxidising properties

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

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20.3 °C

See Section 12 for additional **Ecological Information**

Incompatible materials None kno

None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Acute toxicity

Oral LD50 mg/kg Dermal LD50 mg/kg	<u>Values</u> : 300-2000 : > 2000	<u>Species</u> Rat Rat	Method OECD 423 OECD 402	<u>Remarks</u>
Inhalation LC50 mg/l	: > 4.79	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation Serious eye damage/eye irritation Sensitisation	: Non-irritating to the skin: Not irritating to eyes: Not a skin sensitiser	Rabbit Rabbit Guinea pig	OECD 404 OECD 405 OECD 406	

Chronic toxicity

Germ cell mutagenicity

Chemical name

Tebuconazole : Not classified Azoxystrobin : Not classified

Carcinogenicity

Chemical name

Tebuconazole : Not Carcinogenic Azoxystrobin : Not Carcinogenic

Reproductive toxicity .

Chemical name

Tebuconazole : H361d - Suspected of damaging the unborn child

Azoxystrobin : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Tebuconazole : Not classified Azoxystrobin : Not classified

STOT - Repeated Exposure

Chemical name

Tebuconazole : Not classified Azoxystrobin : Not classified

Aspiration hazard

Chemical name

Tebuconazole : Not classified Azoxystrobin : Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

Fish 96-hour LC50 mg/l : 5.4 Oncorhynchus mykiss OECD 203
Crustacea 48-hour EC50 mg/l : 2.15 Daphnia magna OECD 202
Algae 72-hour EC50 mg/l : 8.72 P. subcapitata OECD 201

Other plants EC50 mg/l : ---- Not available

 Chronic aquatic toxicity
 Values
 Species
 Method
 Remarks

 Fish NOEC mg/l
 : No data available

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available

Alace NOEC mall : NO data available

Algae NOEC mg/l : 0.34 P.subcapitata OECD 201

Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical name

Tebuconazole : 1988 Bobwhite quail Azoxystrobin : >2000 Bobwhite quail

Bees Oral LD50 µg/bee

Chemical name

Tebuconazole : 83.05 Oral

Azoxystrobin : >25

12.2. Persistence and degradability

Abiotic Degradation Water DT50 days Chemical name

Tebuconazole : 365

Azoxystrobin : 205 pH 6.4-7.5 ;20 ° C

Soil DT50 days Chemical name

Tebuconazole : 34.8

Azoxystrobin : 262 20 °C

Biodegradation Chemical name

Tebuconazole : Not readily biodegradable OECD 301B

Azoxystrobin :

12.3. Bioaccumulative potential

Partition Coefficient Values Method Remarks
(n-octanol/water) Log Pow

Chemical name

Tebuconazole : 3.7

Azoxystrobin : 2.7 OECD 107 pH 5; 20 ° C

Bioconcentration factor (BCF)

Chemical name

Tebuconazole : 78

Azoxystrobin : ... No data available

12.4. Mobility in soil

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

Chemical name

Tebuconazole : 769 KOC Azoxystrobin : 2.5 KOC

Endocrine Disruptor 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

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

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: Transport information

ADR

products

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole,

Azoxystrobin)

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Yes

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Yes

14.3 Transport hazard class(es)

14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tebuconazole, Azoxystrobin), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

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Special Provisions 274, 335, 601, 375

Classification code M6

RID

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole,

Azoxystrobin)

14.3 Transport hazard class(es)

14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tebuconazole, Azoxystrobin), 9, III

Environmental hazard

Special Precautions for Users

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 375, 601

Classification code M6

IMDG

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole,

Azoxystrobin)

14.3 Transport hazard class(es) 14.4 Packing group Ш

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tebuconazole, Azoxystrobin), 9, III, Marine pollutant

14.5 Environmental hazard Yes

14.6 Special Precautions for Users 14.5 Marine pollutant Р **Environmental hazard** Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 **EmS-No** F-A, S-F

IMDG Stowage and segregation Category A No information available

14.7 Maritime transport in bulk

according to IMO instruments

IATA

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole,

Azoxystrobin)

No information available

14.3 Transport hazard class(es) 14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tebuconazole, Azoxystrobin), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code 9L



SECTION 15: Regulatory information

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

Trade name / designation Registration Number(s) **Date**

Not Applicable Not Applicable Not Applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

Chemical Safety Report

A risk assessment was performed according to directive (EC) No. 91/414 or according to

regulation (EC) No. 1107/2009

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

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

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

STEL (Short Term Exposure Limit) TWA TWA (time-weighted average) STEL

Ceiling Maximum limit value Skin designation

Revision date 12-May-2022

Reason for revision Changes made to the last version are labeled with this sign ***

Abbreviations and acronyms

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

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

Chemical Abstracts Service number CAS Number -EC Number -**EINECS and ELINCS Number**

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

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

Lethal Dose to 50% of a test population (Median Lethal Dose) LD50 -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

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

Classification of the mixture Classification procedure H302 - Harmful if swallowed Classification based on test data

H361d - Suspected of damaging the unborn child Classification based on Calculation method H410 - Very toxic to aquatic life with long lasting effects Classification based on Calculation method

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

Disclaimer

The information provided in this 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				

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