

# SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Seizer 100 EC

Revision date 03-Nov-2022 Print Date 03-Nov-2022 **Version 2 Supersedes Date:** 

25-Sep-2020

Product Code(s) INS00165-27

ADM.03500.I.1.B 9500913

### 1. Identification

Product identifier

### Seizer 100 EC

Other means of identification

Synonyms Bifenthrin 100 EC

Formula EC
Registration Number(s) L7471
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Insecticide; Professional use Uses advised against No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier ADAMA SOUTH AFRICA (PTY) LTD

Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive

Bellville 7530

Emergency telephone number

Emergency Telephone +27 82 446 8946 (Griffon Poison Centre)

+27 86 155 5777 (Tygerberg Poison Information Centre) +27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address SDS@ADAMA.COM

### 2. Hazard(s) identification

#### Classification of the substance or mixture

Aspiration hazard	Category 1 - (H304)
Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)

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Chronic aquatic toxicity Category 1 - (H410)

#### **Label elements**

Signal word Danger

#### Hazard pictograms



#### **Hazard statements**

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

#### **Precautionary statements**

P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 + P265 - Wash face, hands and any exposed skin thoroughly after handling. Do not

touch eyes

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

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

P301 + P316 - IF SWALLOWED: Get emergency medical help immediately

P301+317 - IF SWALLOWED: Get medical help

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305+P354\_P388 - IF IN EYE: Immediately rinse with water for several minutes. Remove

contact lenses if present, and easy to do

P317 - Get medical help

P319 - Get medical help if you feel unwell

P321 - Specific treatment (see supplemental first aid instructions on this label)

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P332 + P317 - If skin irritation occurs, Get medical help

P362 + P364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local, regional, national, and

international regulations as applicable

#### Additional information

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous

Chemical Agents - 2021.

#### Other hazards

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

### 3. Composition/information on ingredients

Substance

Not applicable

**Mixture** 

Synonyms Bifenthrin 100 EC

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Solvent naphtha, petroleum, heavy	64742-94-5	76-85	265-198-5	Flam. Liq. 4 (H227)	
arom.				Asp. Tox. 1 (H304)	
				STOT SE 3 (H336)	
				Acute auatic 2 (H401)	
				Aquatic Chronic 2 (H411)	
Bifenthrin	82657-04-3	9-12		Acute Tox. 3 (H301)	
				Acute Tox. 3 (H331)	
				STOT RE 2 (H373)	
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 1 (H410)	M=10000
					M=100000
Benzenesulfonic acid,	-	2-4	932-231-6	Skin Irrit. 2 (H315)	
C10-13-(linear)alkyl derivs., calcium				Eye Dam. 1 (H318)	
salt				Aquatic Chronic 3 (H412)	
2-Ethylhexan-1-ol	104-76-7	1-3	203-234-3	Acute Tox. 4 (H332)	
1				Skin Irrit. 2 (H315)	
				Eye Irrit. 2 (H319)	
				STOT SE 3 (H335)	

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

#### **Additional information**

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Seizer 100 EC and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021. Regulation 14(b), not listed in the table above.

### 4. First-aid measures

Description of necessary 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

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. Get medical

attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Rinse mouth. If swallowed, call a poison control center or

physician immediately.

For emergency responders

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

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Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

### 5. Fire-fighting measures

Suitable Extinguishing Media

surrounding environment.

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

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Flammable properties Combustible material

**Explosive properties** No data available.

Specific/special fire-fighting measures

Specific/special fire-fighting

measures

No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for

fire-fighters

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

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

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

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

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

**Other information** Refer to protective measures listed in Sections 7 and 8.

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### 7. Handling and storage

Preventive measures 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. Ensure adequate

ventilation. Take off contaminated clothing and wash before reuse.

Precautions for safe handling

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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. Store away from other materials.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

### 8. Exposure controls/personal protection

Control parameters

**Exposure guidelines**This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

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

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).

**Eye/face protection** Tight sealing safety goggles.

**Skin and 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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

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

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Property Values Method Remarks

**Appearance** 

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Physical state : Liquid

Color : clear Yellowish Odor : chemical

Odor threshold : No data available

pH : 5.2 - 6.2 solution (1%)

Melting point / freezing point °C : No data available solution (1%)

Boiling point / boiling range °C : No data available

Flash point °C : 67

Evaporation rate : - No data available

Flammability (solid, gas) : Not applicable for liquids

Upper/lower flammability or : No data available

explosive limits

Vapor pressure kPa : No data available Not applicable

Vapor density : No data available Relative density : 0.88 - 0.98

Solubility(ies) mg/l : No data available Not applicable

Partition coefficient Log Pow : See Section 12 for additional

Ecological Information

Autoignition temperature °C : No data available

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C : 1.86

Explosive properties : No data available Oxidizing properties : No data available

Surface tension : - No data available

Particle Size : Not applicable

Other information

Bulk density g/ml : Not applicable

### 10. Stability and reactivity

Reactivity

**Reactivity** No information available.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

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## 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

	<u>Values_</u>	<u>Species</u>	<u>Method</u>	<u>Remarks                                    </u>
Oral LD50 mg/kg	: 300 - 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	
Inhalation LC50 LC50	: > 5.25	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	: Irritating to skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Serious eye damage/eye irritation	Rabbit	OECD 405	
Sensitization	: Not a skin sensitizer	Guinea pig	OECD 406	

#### **Chronic toxicity**

Germ cell mutagenicity

Chemical name

Bifenthrin : Not classified

Carcinogenicity

Chemical name

Bifenthrin : Not classified

Reproductive toxicity .

Chemical name

Bifenthrin : Not classified

**STOT - Single Exposure** 

Chemical name

Bifenthrin : No data available

STOT - Repeated Exposure

Chemical name

Bifenthrin : No data available

Aspiration hazard Chemical name

Bifenthrin : No data available

### 12. Ecological information

### **Ecotoxicity**

Aquatic toxicity

 Acute toxicity
 Values
 Species
 Method
 Remarks

 Fish 96-hour LC50 mg/l
 : 0.031
 Poecilia reticulata
 OECD 203

Crustacea 48-hour EC50 mg/l : No data available : No data available Other plants EC50 mg/l : No data available : No data avail

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

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Algae NOEC mg/l No data available Other plants NOEC mg/l No data available

**Terrestrial Toxicity** Birds Oral LD50 mg/kg

**Chemical name** 

Bifenthrin **EPA-OPPTS** : 1800 Bobwhite quail

850.2100

Bees Oral LD50 µg/bee

**Chemical name** 

Bifenthrin : 0.39 OECD 213 OECD

**Abiotic Degradation** Water DT50 days

**Chemical name** 

Bifenthrin : 161.1

Soil DT50 days Chemical name

Bifenthrin : 86.8 Field

Biodegradation Chemical name

Bifenthrin : No data available

Log Pow Method Remarks Values

Chemical name

Bifenthrin **:** > 6.71 **OECD 107** 

**Bioconcentration factor (BCF)** 

**Chemical name** 

Bifenthrin **OECD 305** : 417

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

**Chemical name** 

Bifenthrin : 236,610 **KOC** Not mobile

### 13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

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

### 14. Transport information

ADR

14.1 UN number

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

petroleum, heavy arom., Bifenthrin)

14.3 Transport hazard class(es)

Labels

Ш 14.4 Packing group

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Description

naphtha, petroleum, heavy arom., Bifenthrin), 9, III, (-)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 601, 375

Classification code M6
Tunnel restriction code (-)

RID

**14.1 UN number** UN3082

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

petroleum, heavy arom., Bifenthrin)

14.3 Transport hazard class(es) 9
Labels 9

14.4 Packing group

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent

naphtha, petroleum, heavy arom., Bifenthrin), 9, III

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. (Solvent naphtha,

petroleum, heavy arom., Bifenthrin)

14.3 Hazard Class 9
14.4 Packing group III

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

naphtha, petroleum, heavy arom., Bifenthrin), 9, III, Marine pollutant

**14.5 Marine pollutant** P Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 EmS-No F-A, S-F IMDG Stowage and segregation Category A

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA

**14.1 UN number** UN3082

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

petroleum, heavy arom., Bifenthrin)

14.3 Transport hazard class(es)

14.4 Packing group

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

naphtha, petroleum, heavy arom., Bifenthrin), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

Yes

ERG Code 9L



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\* 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

### 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

### 16. Other information

#### Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects H411 - Toxic to aquatic life with long lasting effects H412 - Harmful to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 03-Nov-2022

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

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

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

#### Abbreviations and 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

#### The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture Classification procedure

H302 - Harmful if swallowed Classification based on test data

H304 - May be fatal if swallowed and enters airways Classification based on Calculation method

H315 - Causes skin irritation

Classification based on test data
H318 - Causes serious eye damage

Classification based on test data

H336 - May cause drowsiness or dizziness

Classification based on Calculation method
Classification based on Calculation method

exposure

H400 - Very toxic to aquatic life Classification based on test data

H410 - Very toxic to aquatic life with long lasting effects

Classification based on Calculation method

#### 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**