

## **Safety data sheet**

**according to 1907/2006/EC, Article 31**

Printing date: 09.01.2023

Version number 2 (replaces version 1)

Revision: 09.01.2023

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

**1.1 Product identifier****Trade name:** AVALON**Formulation:** Suspension concentrate - SC**Active ingredient:** Pyrimethanil**CAS Number:** Pyrimethanil: 53112-28-0**UFI:** C9HV-WMEY-830Q-359Y**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** SU1 Agriculture, forestry, fishery**Product category** PC27 Plant protection products**Uses advised against** Fungicides**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Galenika-Fitofarmacija AD

Batajnicki drum bb

11080 Belgrade

tel: + 381 (11) 3072-301

fax: + 381 (11) 3072 310

e-mail: office@fitofarmacija.rs

**1.4 Emergency telephone number:**

Poison Control Center Military Medical Academy

Crnotravska 17, Belgrade, Serbia

tel: + 381 (11) 3608-440, 00-24h

### **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS09

**Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

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

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

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**Standard phrases for safety precautions**

*SP 1 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).*

**Safety precautions related to the environment (SPe):**

*SPe3: To protect aquatic organisms respect an unsprayed buffer zone of 10 meters or 5 meters with 50% DRN to surface water bodies in late application on Grapes.*

*SPe3: To protect aquatic organisms respect an unsprayed buffer zone of 10 meters including 10 meters of vegetated filter strip in single applications on Strawberry, Tomato, Aubergine and Pepper.*

*SPe3: To protect aquatic organisms respect an unsprayed buffer zone of 20 meters including 20 meters of vegetated filter strip to surface water bodies in Lettuce.*

*SPe3: To protect aquatic organisms respect an unsprayed buffer zone of 20 meters including 20 meters of vegetated filter strip in multiple applications on Strawberry, Tomato, Aubergine and Pepper.*

*SPe3: To protect aquatic organisms respect an unsprayed buffer zone of 10 meters including 10 meters of vegetated filter strip to surface water bodies in early application on Grapes.*

*SPe3: To protect aquatic organisms respect an unsprayed buffer zone of 10 meters to surface water bodies in early application on Grapes.*

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.1 Chemical characterisation: Substance** Not applicable.**3.2 Mixtures****Dangerous components:**

CAS: 53112-28-0 Index number: 612-240-00-9	Pyrimethanil Aquatic Chronic 2, H411	37.7%
CAS: 68512-35-6 EC number: 614-548-9	Lignin, alkali, reaction products with formaldehyde and sodium bisulfite Acute Tox. 2, H300; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
CAS: 68131-39-5	Alcohols, C12-15, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302; Aquatic Chronic 3, H412	≤1%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	≤1%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures****General information:**

Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician.

**After inhalation:** Supply fresh air. Keep patient warm. Consult doctor if symptoms persist.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

There is no specific antidote available. Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters** Use self-contained breathing apparatus and protective clothing.

### **SECTION 6: Accidental release measures**

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

Wear personal protective equipment and eyes/face protection (refer to Section 8.). Remove contaminated clothing and wash skin with water and soap.

#### **6.2 Environmental precautions:**

Do not dismiss the product in the natural environment. In case of accidental spillage, take any measure to avoid contamination of soils and rivers, collected as much product in a clean container to reuse or eliminate it (see section 13). If the product contaminates water bodies, rivers and drains prevent the competent authorities in accordance with regulatory procedures.

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

Dispose of the material collected according to regulations.

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

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

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

Avoid inhalation and contact with skin and eyes. Wear protective clothing and protective equipment for eyes and face. Do not eat, drink or smoke. After handling wash hands and face with soap and water. Wash contaminated clothing.

**Information about fire - and explosion protection:** In case of fire do not breathe fumes.

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

##### **Storage:**

**Requirements to be met by storerooms and receptacles:** Store in a cool and dry, in the original packaging.

##### **Information about storage in one common storage facility:**

Store in a dry place, away from direct sunlight, heat and incompatible materials.

**Further information about storage conditions:** None.

**7.3 Specific end use(s)** Refer to the label.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### 8.2 Exposure controls

##### **Individual protection measures, such as personal protective equipment**

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

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

##### **Hand protection**



Protective gloves

##### **Material of gloves**

The selection of suitable gloves in accordance to EN 374.

As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application

##### **Eye/face protection**

In accordance to standard EN 166.



Tightly sealed goggles

**Body protection:** Protective work clothing

**Environmental exposure controls** Do not allow to get into the environment.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### **General Information**

<b>Colour:</b>	Dark beige
<b>Odour:</b>	Uncharacteristic.
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	No data available.
<b>Lower and upper explosion limit</b>	Not determined.
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	108 °C (CIPAC MT 12)
<b>Ignition temperature:</b>	Undetermined.
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	7.7 (CIPAC MT 75)
<b>Viscosity:</b>	Not determined.
<b>Kinematic viscosity</b>	Not determined.
<b>Dynamic at 20 °C:</b>	1704-363.6 cP

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<b>Solubility</b>	Miscible.
<b>water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Data lacking.
	Not determined.
<b>Density and/or relative density</b>	
<b>Density:</b>	1.06
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>9.2 Other information</b>	
<b>Appearance:</b>	Suspension
<b>Form:</b>	Liquid
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Solvent content:</b>	
<b>VOC (EC)</b>	4.50 %
<b>Crystallisation temperature / range:</b>	
<b>Oxidising properties</b>	Not oxidising.
<b>Evaporation rate</b>	Not determined.
<b>9.2.1. Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Not applicable.
<b>Flammable gases</b>	Not applicable.
<b>Aerosols</b>	Not applicable.
<b>Oxidising gases</b>	Not applicable.
<b>Gases under pressure</b>	Not applicable.
<b>Flammable liquids</b>	Not applicable.
<b>Flammable solids</b>	Not applicable.
<b>Self-reactive substances and mixtures</b>	Not applicable.
<b>Pyrophoric liquids</b>	Not applicable.
<b>Pyrophoric solids</b>	Not applicable.
<b>Self-heating substances and mixtures</b>	Not applicable.
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not applicable.
<b>Oxidising liquids</b>	Not applicable.
<b>Oxidising solids</b>	Not applicable.
<b>Organic peroxides</b>	Not applicable.
<b>Corrosive to metals</b>	Not applicable.
<b>Desensitised explosives</b>	Not applicable.

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability** Stable under normal handling and storage conditions.
- 10.3 Possibility of hazardous reactions** No dangerous reactions known.
- 10.4 Conditions to avoid** Source of ignition, heat, fire, high humidity, sparks.
- 10.5 Incompatible materials:** Acids and bases.

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**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008***Acute toxicity* Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 53112-28-0 Pyrimethanil**

Oral	LD50	>4,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rat)
Inhalative	LC50/4 h	>1.98 mg/l (Rat)

*Skin corrosion/irritation:* Based on available data, the classification criteria are not met.*Serious eye damage/eye irritation:* Based on available data, the classification criteria are not met.*Respiratory or skin sensitisation:* Based on available data, the classification criteria are not met.*Germ cell mutagenicity* Based on available data, the classification criteria are not met.*Carcinogenicity* Based on available data, the classification criteria are not met.*Reproductive toxicity* Based on available data, the classification criteria are not met.*STOT-single exposure* Based on available data, the classification criteria are not met.*STOT-repeated exposure* Based on available data, the classification criteria are not met.*Aspiration hazard* Based on available data, the classification criteria are not met.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

**12.1 Toxicity****Aquatic toxicity:****CAS: 53112-28-0 Pyrimethanil**

	EC50	1.2 mg/l (Alga) (96 h)
		10.56 mg/l (Fish) (96 h)
		2.9 mg/l (Daphnia magna) (48 h)
Oral	LD50	>100 µg a.i./bee (Apis mellifera)
Dermal	LD50	>100 µg a.i./bee (Apis mellifera)

**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to national official regulations.

### SECTION 14: Transport information

**14.1 UN number or ID number****ADR/RID/ADN, IMDG, IATA**

UN3082

**14.2 UN proper shipping name****ADR/RID/ADN**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (Pyrimethanil)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Pyrimethanil)

**IMDG, IATA****14.3 Transport hazard class(es)****ADR/RID/ADN, IMDG, IATA****Class**

9 Miscellaneous dangerous substances and articles.

**Label**

9

**14.4 Packing group****ADR/RID/ADN, IMDG, IATA**

III

**14.5 Environmental hazards:****Marine pollutant:**

Symbol (fish and tree)

**Special marking (ADR/RID/ADN):**

Symbol (fish and tree)

**Special marking (IATA):**

Symbol (fish and tree)

**14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

**Hazard identification number (Kemler code):**

60

**EMS Number:**

F-A,S-F

**Stowage Code**

SW2 Clear of living quarters.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Transport/Additional information:****ADR/RID/ADN**

Exempted from ADR+LQ (UN3077+ 3082 Class 9) according to extra provision ADR SV375 as of 01.01.15. "375. These substances when carried in single or combination packaging containing net quantity per single or inner packaging of 5 lit or less for liquids having a nett mass per single or inner packaging of 5KG or less for solids, are not subject to any other provisions."

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**Trade name: AVALON****UN "Model Regulation":**

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UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (PYRIMETHANIL), 9, III

### SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**Seveso category** E2 Hazardous to the Aquatic Environment**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This 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.*

**Hazard phrases:**

H300 Fatal if swallowed.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**Date of previous version:** 14.05.2021**Version number of previous version:** 1**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*