

# **SAFETY DATA SHEET**

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

Soratel

Revision date 10-May-2023 Version 4 Supersedes Date: 16-Mar-2023

Product Code(s) FNG56955-44

ADM.03500.F.2.B 9510158

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

#### 1.1. Product identifier

Print Date 10-May-2023

# **Soratel**

Other means of identification

Synonyms Prothioconazole 250 EC

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

### **Supplier**

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 UK: National Chemical Emergency Centre:

Tel: 01856 407333 (24 hours, 7 days a week)

## **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)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

## 2.2. Label elements

\_\_\_\_\_

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

Contains: Acetophenone

#### Hazard pictograms



Signal word Warning

Hazard statements H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P410 - Protect from sunlight

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

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
Acetophenone	98-86-2	202-708-7	606-042-00-1	31 -35	Acute Tox. 4			01-211953316

					(H302) Eye Irrit. 2 (H319)		9-37-0002
Prothioconazole	178928-70-6	605-841-2	613-337-00-9	20 - 24	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M = 10 M = 1	No data available
Poly(oxy-1,2-ethanediy I), .alphaphenylomega. -hydroxy-, styrenated		-		14 - 18	Aquatic Chronic 3 (H412)		No data available
1-Octyl-2-pyrrolidinone	2687-94-7	403-700-8	613-098-00-0	12 - 16	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)		01-000001533 5-74-0000

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 In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). First aider: Pay attention to self-protection.

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

a doctor.

Eye contact Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial

flushing, remove any contact lenses and continue flushing for at least 15 minutes. If

symptoms persist, call a doctor.

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

and shoes. Consult a doctor if necessary.

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

**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

**Note to doctors** Treat symptomatically.

## SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

-

chemical

Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Special protective equipment for

Specific hazards arising from the

Unsuitable extinguishing media

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** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

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

6.2. Environmental precautions

**Environmental precautions**See Section 12 for additional Ecological Information.

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 up**Take 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. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash it before reuse.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

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.

ADAMA Page 4/11

## 7.3. Specific end use(s)

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 Limits** 

**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

Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

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

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Property	<u>Values</u>	<u>Method</u>	Remarks
Appearance Physical state	: Liquid		
Colour	: Yellowish		
Odour	: No information available		
Odour threshold	: No data available		
рН	: 6.5 - 7.5		
Melting point / freezing point °C	:		Not applicable
Boiling point / boiling range °C	:		No data available
Flash point °C	: 94.4	EEC A.9	
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or	: No data available		
explosive limits			
Vapour pressure kPa	:		Not applicable
Vapour density	: No data available	FFO 4 0	
Relative density	: 1.03 - 1.13	EEC A.3	
Solubility(ies) mg/l	: No data available		
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 : 24.1

OECD 114

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 classesExplosive properties: Not an explosiveOxidising properties: Not oxidizing

9.2.2. Other safety characteristics

No information available

# SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

**Explosion data** 

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

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

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapours.

## SECTION 11: Toxicological information

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

Acute toxicity

	<u>Val</u>	ues_	Speci	es Method_	Remarks
Oral LD50 mg/kg	: 10	030	Rat	OECD 425	female
Dermal LD50 mg/kg	: > 2	2000	Rat	OECD 402	female
Inhalation LC50 mg/l	: 5.0	02	Rat	OECD 403	
Skin corrosion/irritation	: Mile	d skin irritant	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Irrit	ating to eyes	Rabbit	OECD 405	

FNG56955-44 - Soratel

Revision date 10-May-2023

: Skin sensitiser Mouse **OECD 429** Sensitisation

**Chronic toxicity** 

Germ cell mutagenicity

**Chemical name** 

Prothioconazole : Not classified

Carcinogenicity

Chemical name

Prothioconazole Not Carcinogenic

Reproductive toxicity .

Chemical name

Prothioconazole : Not toxic for the reproductive system

**STOT - Single Exposure** 

Chemical name

Prothioconazole : Not classified

**STOT - Repeated Exposure** 

Chemical name

Prothioconazole : Not classified

**Aspiration hazard** Chemical name

Prothioconazole : Not classified

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Acute toxicity Species Method Remarks Values Fish 96-hour LC50 mg/l 2.49 Rainbow trout OECD 203 Crustacea 48-hour EC50 mg/l Daphnia magna **OECD 202** 8.53

Algae 72-hour EC50 mg/l 3.27 P. subcapitata **OECD 201** Other plants EC50 mg/l 1.15 Lemna gibba **OECD 221** 

Values\_ Chronic aquatic toxicity Species Method Remarks

No data available Fish NOEC ma/l Crustacea NOEC mg/l No data available Algae NOEC mg/l No data available Other plants NOEC mg/l No data available

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

Chemical name

: > 2000 Bobwhite quail Prothioconazole

Bees Oral LD50 µg/bee

**Chemical name** 

Prothioconazole : > 71 Apis mellifera OECD 213

12.2. Persistence and degradability

Abiotic Degradation Water DT50 days Chemical name

Prothioconazole : 0.8 - 1.0

Soil DT50 days Chemical name

Prothioconazole : 2.8

**Biodegradation** 

12.3. Bioaccumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Log Pow

Chemical name

Prothioconazole : 3.82 pH 7; 20 ° C

**Bioconcentration factor (BCF)** 

Chemical name

Prothioconazole : 19.7

12.4. Mobility in soil

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

Chemical name

Prothioconazole : ---- No data available

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

products

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

with local 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: Transport information**

ADR

**14.1 UN number** UN3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prothioconazole)

14.3 Transport hazard class(es)
14.4 Packing group

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

(Prothioconazole), 9, III, (-)

Revision date 10-May-2023

#### FNG56955-44 - Soratel

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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. (Prothioconazole)

14.3 Transport hazard class(es) 9
14.4 Packing group ||||

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

(Prothioconazole), 9, III

Environmental hazard Yes

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. (Prothioconazole)

14.3 Transport hazard class(es) 9
14.4 Packing group ||||

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

(Prothioconazole), 9, III, Marine pollutant

14.5 Environmental hazard Yes

14.6 Special Precautions for Users
14.5 Marine pollutant P
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** No information available

according to IMO instruments

<u>IATA</u>

**14.1 UN number** UN3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prothioconazole)

14.3 Transport hazard class(es) 9
14.4 Packing group ||||

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

(Prothioconazole), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code 9L



<sup>\*</sup> 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

Revision date 10-May-2023

FNG56955-44 - Soratel

## SECTION 15: Regulatory information

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

### **National regulations**

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

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

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

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

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

### Legend

SVHC: Substances of Very High Concern for Authorisation:

## Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value Skin designation

**Revision date** 10-May-2023

SDS sections updated Reason for revision

Abbreviations and acronyms

#### FNG56955-44 - Soratel

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 EC 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

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

Classification of the mixtureClassification procedureH302 - Harmful if swallowedClassification based on test dataH317 - May cause an allergic skin reactionClassification based on test dataH319 - Causes serious eye irritationClassification based on test data

H411 - 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**