

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

Soratel

Revision date 12-Dec-2024 Version 5 Supersedes Date: 10-May-2023

Product Code(s) FNG56955-44

Print Date 12-Dec-2024 ADM.03500.F.2.B

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

1.1. Product identifier

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 Uses advised againstFungicide; Professional use
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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Acute toxicity - Oral	Category 4 - (H302)				
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)				
Serious eye damage/eye irritation	Category 2 - (H319)				
Skin sensitisation	Category 1 - (H317)				
Chronic aquatic toxicity	Category 2 - (H411)				

Revision date 12-Dec-2024

FNG56955-44 - Soratel

2.2. Label elements

Labelling according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Contains: Acetophenone

Hazard pictograms



Signal word Warning

H302 - Harmful if swallowed **Hazard statements**

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H411 - Toxic to aquatic life with long lasting effects

P102 - Keep out of reach of children **Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray 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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

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

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

Observiced warms OAONs FONS Index No Weight 0/ Observice Onservice M.F.	
Chemical name CAS No EC No Index No Weight-% Classification Specific M-Fac	M-Factor REACH

					according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567	concentration limit (SCL)		Registration Number
Acetophenone	98-86-2	202-708-7	606-042-00-1	31 -35	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)			01-211953316 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	104376-75-2	-		14 - 18	Aquatic Chronic 3 (H412)			No data available
1-Octyl-2-pyrrolidinone		403-700-8	613-098-00-0	12 - 16	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)			01-00001533 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 aiderUse 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 doctorsTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

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

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

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

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 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 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. 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

ADAMA Page 4/11

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.

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

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 protectionWear suitable protective clothing.

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

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.

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 : Yellowish

Odour : No information available
Odour threshold : No data available

pH : 6.5 - 7.5

Melting point / freezing point °C : ---- Not applicable
Boiling point / boiling range °C : ---- No data available
Flash point °C EEC A.9

Flash point °C : 94.4
Evaporation rate : No data available

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

ADAMA Page 5/11

explosive limits : No data available

Vapour pressure kPa : ----

Vapour density : No data available

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 No data available No data available

Not applicable

Decomposition temperature °C : ----**Kinematic viscosity** mm2/s 40 °C : 24.1

OECD 114

Surface tension : No data available Particle Size : Not applicable

9.2. Other information

Autoignition temperature °C

Bulk density g/ml : Not applicable

9.2.1. Information with regards to physical hazard classes
Explosive properties : Not an explosive
Oxidising 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 materialsNone 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

ADAMA Page 6/11

Values Species Method Remarks OECD 425 Oral LD50 mg/kg 1030 Rat female Dermal LD50 mg/kg > 2000 Rat OECD 402 female Inhalation LC50 mg/l < 5 Rat OECD 403 Skin corrosion/irritation : Mild skin irritant Rabbit **OECD 404** Serious eye damage/eye irritation Irritating to eyes Rabbit **OECD 405** Sensitisation Skin sensitiser Mouse **OECD 429**

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 toxicityValuesSpeciesMethodRemarksFish 96-hour LC50 mg/l: 2.49Rainbow troutOECD 203Crustacea 48-hour EC50 mg/l: 8.53Daphnia magnaOECD 202Algae 72-hour EC50 mg/l: 3.27P. subcapitataOECD 201

Algae 72-hour EC50 mg/l: 3.27P. subcapitataOECD 201Other plants EC50 mg/l: 1.15Lemna gibbaOECD 221

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

Fish NOEC mg/l : No data available
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

Prothioconazole : > 2000 Bobwhite quail FIFRA 71-1

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 OECD 308

Soil DT50 days Chemical name

Prothioconazole : 2.8 OECD 307

Biodegradation

12.3. Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Log Pow

Chemical name

Prothioconazole : 3.04 OECD 117 pH 7; 20 ° C

Bioconcentration factor (BCF)

Chemical name

Prothioconazole : 19.7 OECD 305

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical name

Prothioconazole : 1765 OECD 312 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

ADAMA Page 8/11

ADR

14.1 UN number UN3082

14.2 UN proper shipping name Environmentally hazardous substances, 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 274, 335, 601, 375

Classification code M6
Tunnel restriction code (-)

RID

14.1 UN number UN3082

14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Prothioconazole)

14.3 Transport hazard class(es)914.4 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 substances, liquid, n.o.s. (Prothioconazole)

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

DescriptionUN3082, Environmentally hazardous substances, 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

IATA

14.1 UN number UN3082

14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Prothioconazole)

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

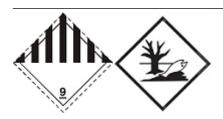
Description UN3082, Environmentally hazardous substances, liquid, n.o.s. (Prothioconazole), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions A97, A158, A197, A215

ERG Code 9L



* 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

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

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

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 STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Revision date 12-Dec-2024

Reason for revision Classification according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Further information This material safety data sheet complies with the provisions of Regulation (EC) No

1907/2006, as amended by Regulation (EU) 2020/878.

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

Classification according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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

H332 - Harmful if inhaled Classification 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