

# SAFETY DATA SHEET

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

#### Avastel

Revision date 31-Oct-2024

Version 2 Supersedes Date: 21-Oct-2024

Print Date 31-Oct-2024

ADM.03503.F.1.A

Product Code(s) FNG56983-44 9510780

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

1.1. Product identifier

# Avastel

#### Other means of identification 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 TelephoneUK: National Chemical Emergency Centre:<br/>Tel: 01856 407333 (24 hours, 7 days a week)<br/>Republic of Ireland: National Poisons Information Centre, Beaumont Hospital:<br/>Tel: 01 809 2166 or 01 837 9964 (8am - 10pm 7 days a week) or<br/>the UK National Chemical Emergency Centre on<br/>Tel: +44 (0)1865 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

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)

Effects on or via lactation	Lact - (H362)
Chronic aquatic toxicity	Category 2 - (H411)

#### 2.2. Label elements

Labelling according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567 Contains Fluxapyroxad , 1-Octyl-2-pyrrolidinone, Alcohols, C11-14-iso-, C13-rich, ethoxylated (7-15 EO)

#### Hazard pictograms

Signal word	Danger
Hazard statements	H315 - Causes skin irritation H318 - Causes serious eye damage H362 - May cause harm to breast-fed children H411 - Toxic to aquatic life with long lasting effects
Precautionary Statements	<ul> <li>P102 - Keep out of reach of children</li> <li>P201 - Obtain special instructions before use</li> <li>P263 - Avoid contact during pregnancy and while nursing</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water and soap</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P391 - Collect spillage</li> <li>P410 - Protect from sunlight</li> <li>P501 - Dispose of contents/ container to an approved waste disposal plant</li> </ul>
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		M-Factor	REACH
					GB-CLP	concentration limit (SCL)		Registration Number
					Regulations UK SI			
					2019/720 and UK SI			
					2020/1567			
Acetophenone	98-86-2	202-708-7	606-042-00-1	35 - 39	Acute Tox. 4 (H302)			01-211953316 9-37-0002
					Eye Irrit. 2			
1-Octyl-2-pyrrolidinone	2687-94-7	403-700-8	613-098-00-0	15 - 19	(H319) Skin Corr. 1B			01-000001533
					(H314) Eye Dam. 1			5-74-0000
					(H318)			
					Aquatic Chronic 2			
					(H411)			
Prothioconazole	178928-70-6	605-841-2	613-337-00-9	13 - 16	Aquatic Acute 1 (H400)		M = 10 M = 1	No data available
					Aquatic		101 - 1	available
					Chronic 1 (H410)			
Alcohols, C11-14-iso-,	78330-21-9	-		10 - 13	Acute Tox. 4			No data
C13-rich, ethoxylated (7-15 EO)					(H302) Eye Dam. 1			available
					(H318) Aquatic			
					Chronic 3			
Poly(oxy-1,2-ethanediy	99734-09-5			8 - 11	(H412) Aquatic			No data
I),	997 34-09-3	-		0-11	Chronic 3			available
.alpha[tris(1-phenylet hyl)phenyl]omegahy					(H412)			
droxy-								
Fluxapyroxad	907204-31-3	-	616-228-00-4	6 - 9	Lact. (H362) Aquatic Acute		M=1 M=1	No data available
					1 (H400)			
					Aquatic Chronic 1			
<b>.</b>	444505 00 0				(H410)			
Tristyrylphenol ethoxylate phosphate	114535-82-9	-		1 - 4	Eye Irrit. 2 (H319)			No data available
ester	7664 00 0	004 600 0	015-011-00-6	- 1		Evo Irrit O u		No data
orthophosphoric acid	7664-38-2	231-633-2	010-011-00-6	< 1	Acute Tox. 4 (H302)	Eye Irrit. 2 :: 10%<=C<25%		No data available
					Skin Corr. 1B (H314)	Skin Corr. 1B :: C>=25%		
					Eye Dam. 1	Skin Irrit. 2 ::		
					(H318) Met. Corr. 1	10%<=C<25%		
					(H290)			
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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	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.		
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				
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the 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	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 emergen	y procedures
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Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	See Section 12 for additional Ecological Information.
6.3. Methods and material for conta	inment 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. 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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
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			
Chemical	name	United Kingdom	
orthophosph 7664-3		TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	
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	(recommendation: protection ind	es (EN 374) also with prolonged, direct contact ex 6, corresponding > 480 minutes Permeability time 4): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5	
Skin and body protection		and equipment if required, such as safety goggles certified 374, protective boots certified to EN 13832, and/or a water % 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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.
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	: light yellow to light brown		
Odour	: No information available		
Odour threshold	: No data available		
рН	: 2-3	CIPAC MT 75.3	
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: 92.5	EC A.9; ISO 2719:2002 E	
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	: 1.03 - 1.13	OECD 109; EEC A.3	
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional
-			Ecological Information
Autoignition temperature °C	: 420	EC A.15	-
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C	: 11.5	OPPTS 830.7100	
Surface tension	: 36.29	OECD 115; EC A.5	
Particle Size	: Not applicable		
9.2. Other information			
Bulk density g/ml	: Not applicable		
0.2.1 Information with regards to pl	aveiage bazard alacada		
9.2.1. Information with regards to pl Explosive properties	: Not an explosive		
Oxidising properties	: Not oxidizing		
Oxidiality properties			
<b>9.2.2. Other safety characteristics</b> 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

#### 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.

None.

10.5. Incompatible materials

Incompatible materials 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 Inhalation LC50 mg/l Skin corrosion/irritation Serious eye damage/eye irritation Sensitisation	:	Values >2000 >2000 >5.28 Non-irritating to the skin Severely irritating to eyes Not a skin sensitiser	<u>Species</u> Rat Rat Rat Rabbit Rabbit Mouse	Method OECD 423 OECD 402 OECD 436 OECD 404 OECD 405 OECD 429	<u>Remarks</u>
Chronic toxicity					
Germ cell mutagenicity Chemical name Prothioconazole Fluxapyroxad	:	Not classified Not classified			
Carcinogenicity Chemical name Prothioconazole Fluxapyroxad	:	Not Carcinogenic Not Carcinogenic			
Reproductive toxicity . Chemical name Prothioconazole Fluxapyroxad	:	Not toxic for the reproductive s Effects on or via lactation	system		
STOT - Single Exposure Chemical name Prothioconazole Fluxapyroxad STOT - Repeated Exposure	:	Not classified Not classified			
Chemical name					

Prothioconazole	: Not classified
Fluxapyroxad	: Not classified
Aspiration hazard Chemical name	

Prothioconazole	: Not classified
Fluxapyroxad	: No data available

#### 11.2. Information on other hazards

**11.2.1. Endocrine disrupting propertiesEndocrine disrupting properties**No information available.

# **11.2.2.** Other information Other adverse effects

No information available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

<u>Acute toxicity</u> Fish 96-hour LC50 mg/l Crustacea 48-hour EC50 mg/l Algae 72-hour EC50 mg/l Other plants EC50 mg/l	: : :	<u>Values</u> 3.72 6.58 8.70	<u>Species</u> Rainbow trout Daphnia magna P. subcapitata		Method OECD 203 OECD 202 OECD 201	Remarks semi-static Static Biomass
<u>Chronic aquatic toxicity</u> Fish NOEC mg/I Crustacea NOEC mg/I Algae NOEC mg/I Other plants NOEC mg/I	: : :	Values No data available No data available No data available No data available	<u>Species</u>		<u>Method</u>	<u>Remarks</u>
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical name Prothioconazole	:	> 2000	Bobwhite quail		FIFRA 71-1	
<b>Bees Oral LD50 μg/bee Chemical name</b> Prothioconazole	:	> 71	Apis mellifera		OECD 213	
<u>12.2. Persistence and degradability</u> Abiotic Degradation Water DT50 days Chemical name	_					
Prothioconazole	:	0.8 - 1.0		OE	CD 308	
Soil DT50 days Chemical name Prothioconazole	:	2.8		OE	CD 307	
<b>Biodegradation</b> Chemical name Fluxapyroxad	:	Not readily biode	gradable	OE	CD 301B	
<u>12.3. Bioaccumulative potential</u> Partition Coefficient (n-octanol/water) Log Pow Chemical name		<u>Values</u>		<u>Met</u>	hod	<u>Remarks</u>

Prothioconazole	: 3.04	OECD 117	рН 7; 20 ° С
Fluxapyroxad	: 3.1	OECD 117	20 ° C; pH 7
<b>Bioconcentration factor (BCF)</b> Chemical name Prothioconazole Fluxapyroxad	: 19.7 : 36 - 37	OECD 305 OECD 305	
<u>12.4. Mobility in soil</u> Adsorption/Desorption Chemical name	Values	Method	<u>Remarks</u>
Prothioconazole	: 1765	OECD 312	No data available

<u>12.5. Results of PBT and vPvB assessment</u> 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**

<u>ADR</u>	
14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prothioconazole,
	Fluxapyroxad)
14.3 Transport hazard class(es)	9
14.4 Packing group	
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Prothioconazole, Fluxapyroxad), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 601, 375
Classification code	M6
<u>RID</u>	
14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prothioconazole,
	Fluxapyroxad)
14.3 Transport hazard class(es)	9
14.4 Packing group	
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Prothioconazole, Fluxapyroxad), 9, III
Environmental hazard	Yes
	res

Special Precautions for Users 14.5 Environmental hazard 14.6 Special Precautions for Users Special Provisions Classification code	Yes 274, 335, 375, 601 M6
IMDG	
14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prothioconazole, Fluxapyroxad)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prothioconazole, Fluxapyroxad), 9, III, Marine pollutant
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	Ρ
14.5 Marine pollutant Environmental hazard	P Yes
14.6 Special Precautions for Users	163
Special Provisions	274, 335, 969
EmS-No	F-A, S-F
IMDG Stowage and segregation	
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 SUBSTANCE, LIQUID, N.O.S. (Prothioconazole, Fluxapyroxad)
14.3 Transport hazard class(es)	9
14.4 Packing group	
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prothioconazole, Fluxapyroxad), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	A97, A158, A197
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
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**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

- H362 May cause harm to breast-fed children
- 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 TWA Ceiling	B: EXPOSURE CON TWA (time-weighte Maximum limit value				
Revision date		31-Oct-2024			
Reason for revision	on	Section 2			
Further information	on	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 EC 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 mixture

H318 - Causes serious eye damage

H362 - May cause harm to breast-fed children

H411 - Toxic to aquatic life with long lasting effects

**Classification procedure** Classification based on test data Classification based on Calculation method 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