

This Safety Data Sheet does not form part of the approved label. Following the instructions on the pesticide Product Label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

SAFETY DATA SHEET

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

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R-10833 / MCW-8927

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Apollo 50 SC

Synonyms

Clofentezine 500 SC

Pure substance/mixture

Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use

Acaricide

Uses advised against

No information available

1.3. Details of the supplier of the safety data sheet

Supplier address

Adama Agricultural Solutions UK Ltd

Unit 15, Thatcham Business Village, Colthrop Way, Thatcham, Berkshire, RG19 4LW

Telephone: 01635 860555

Fax: 01635 861555

For further information, please contact

Email address

ukenquiries@adama.com

1.4. Emergency telephone number

Emergency telephone

National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

Hazardous to the Aquatic

Category 3 - (H412)

Environment - Chronic Hazard

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see Section 16

R52/53

2.2. Label elements

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

Hazard pictograms

Signal word

None

Hazard statements

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 - Keep out of reach of children.

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 for use.

EU Specific hazard statements

Additional phrases for PPP

SP1 - Do not contaminate water with the product or its container.

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	Weight %	CAS No.	EC No.	Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification according to 67/548/EEC	M-Factor	REACH Registration Number
Clofentezine	41-45	74115-24-5	277-728-2	-	Aquatic Chronic 3 (H412)	R52-53		-

Full text of R-phrases: see Section 16.

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 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. If symptoms persist, call a physician.

Ingestion

Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

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 physicians 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

No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

In the event of fire and/or explosion do not breathe fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use only with adequate ventilation.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other information

See also Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use only with adequate ventilation.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

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.

Body protection

Suitable protective clothing.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Property	Values	Method	Remarks
Appearance			
Physical state	: Suspension		
Colour	: Dark red		
Odour	: Slight		
Odour threshold	: No data available		
pH	: 6.7 - 7.7	CIPAC MT 75	Solution (1 %) Not applicable
Melting point/freezing point °C	: ----		
Boiling point/boiling range °C	: No data available		
Flash point °C	: > 120.5	EEC A.9	
Evaporation rate	: ----		No data available
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or explosive limits	: No data available		
Vapour pressure	: ----		Not applicable
Vapour density	: No data available		
Relative density	: 1.15 - 1.25	OECD 109	
Solubility(ies)	: ----		Not applicable
Partition coefficient (n-octanol/water) Log Pow	: ----		See Section 12 for more information
Autoignition temperature °C	: 334	EEC A.15	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: 83 - 555	OECD 114	
Explosive properties	: Not an explosive	EEC A.14	
Oxidising properties	: Not oxidising	EEC A.21	
9.2. Other information			
Bulk density g/ml	: ----		Not applicable
Surface tension mN/m	: 54	EEC A.5	

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

	Values	Species	Method	Remarks
Oral LD50 mg/kg	: > 5000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 5000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: ----			Not applicable
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitisation	: Not a skin sensitiser	Guinea pig	OECD 406; (M&K test)	

Chronic toxicity

Germ cell mutagenicity

Chemical name	: Not classified
Clofentezine	

Carcinogenicity

Chemical name	: Not carcinogenic
Clofentezine	

Reproductive toxicity

Chemical name	: Not classified
Clofentezine	

STOT - single exposure

Chemical name	: No data available
Clofentezine	

STOT - repeated exposure

Chemical name	: No data available
Clofentezine	

Aspiration hazard

Chemical name	: No data available
Clofentezine	

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute toxicity

	Values	Species	Method	Remarks
Aquatic toxicity				
Fish 96-hour LC50 mg/l	: > 20	Rainbow trout	USA EPA, FIFRA E, 72-1	
Crustacea 48-hour EC50 mg/l	: > 200	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: > 80	Selenastrum capricornutum	OECD 201	
Other plants EC50 mg/l	: ----			Not applicable

Terrestrial toxicity

Birds oral LD50 mg/kg				
Chemical name	: > 3000	Mallard duck	US EPA 71-1	
Bees oral LD50 µg/bee				
Chemical name	: > 252.6		EPPO 170	

12.2. Persistence and degradability

Abiotic degradation Values	Method	Remarks
Water DT50 days		
Chemical name		
Clofentezine	: 9.6	

Soil DT50 days**Chemical name**

Clofentezine : 63.8

Biodegradation**Chemical name**

Clofentezine : Not readily biodegradable

12.3. Bioaccumulative potential**Partition coefficient Values****(n-octanol/water) Log Pow****Chemical name**

Clofentezine : 3.1

Method

OECD 107

Remarks

20°C

Bioconcentration factor (BCF)**Chemical name**

Clofentezine : 248

12.4. Mobility in soil**Adsorption/desorption****Chemical name**

Clofentezine : 1064

Method**Remarks**

Koc; Low mobility in soil

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. Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and 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.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical safety assessment**

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

SECTION 14: TRANSPORTATION INFORMATION**IMDG/IMO****14.1 UN/ID No**

Not regulated

14.2 Proper shipping name

Not regulated ()

14.3 Hazard class

Not regulated

14.4 Packing group

Not regulated

14.5 Marine pollutant

Not regulated

14.6 Special precautions for user**RID/ADR****14.1 UN/ID No**

Not regulated

14.2 Proper shipping name

Not regulated ()

14.3 Hazard class

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazard

Not regulated

14.6 Special precautions for user**ICAO/IATA****14.1 UN/ID No**

Not regulated

14.2 Proper shipping name

Not regulated ()

14.3 Hazard class

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental hazard

Not regulated

14.6 Special precautions for user**SECTION 16: OTHER INFORMATION****Full text of R-phrases referred to under Sections 2 and 3**

No information available.

R52/53 - Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Full text of H-Statements referred to under Sections 2 and 3

H412 - Harmful to aquatic life with long lasting effects.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**Disclaimer**

The information provided in this Material 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