

# SAFETY DATA SHEET

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

## Apollo SC

Revision Date 20-May-2014

Version 1

Product No INS00034-27

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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 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 SOUTH AFRICA (PTY) LTD  
21 Viben Street  
Brankenfell  
7560

For further information, please contact

Email address

msds@mcw.co.il

### 1.4. Emergency telephone number

Emergency Telephone

+ 27 82 331 6463  
+ 27 21 982 1460

## Section 2: HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification of the product is based on the coformulants listed in section 3

R52-53

*Full text of R-phrases: see section 16*

### 2.2. Label elements

The product is classified and labeled in accordance with Directive 1999/45/EC

**R-Phrases**

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

**S phrases**

S2 - Keep out of the reach of children  
S60 - This material and its container must be disposed of as hazardous waste

**2.3. Other hazards Other Information****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	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

**Section 4: FIRST AID MEASURES****4.1. Description of first aid measures**

<b>General advice</b>	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!
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	None known
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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**Section 5: FIRE-FIGHTING 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 section 8,13

**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**

<b>Derived No Effect Level (DNEL)</b>	No information available
<b>Predicted No Effect Concentration (PNEC)</b>	No information available.

**8.2. Exposure controls**

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Body Protection</b>	Suitable protective clothing.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	No information available.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
<b>Physical state</b>	: suspension		
<b>Color</b>	: dark red		
<b>Odor</b>	: Slight		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: 6.7 - 7.7	CIPAC MT 75	solution (1 %)
<b>Melting point/freezing point °C</b>	: ----		Not Applicable
<b>Boiling point/boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: > 120.5	EEC A.9	
<b>Evaporation rate</b>	: ----		No data available
<b>Flammability (solid, gas)</b>	: Not applicable for liquids		
<b>Upper/lower flammability or explosive limits</b>	: No data available		
<b>Vapor pressure kPa</b>	: ----		Not Applicable
<b>Vapor density</b>	: No data available		
<b>Relative density</b>	: 1.15 - 1.25	OECD 109	
<b>Solubility(ies) mg/l</b>	: ----		Not Applicable
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:		See Section 12 for more information
<b>Autoignition temperature °C</b>	: 334	EEC A.15	
<b>Decomposition temperature °C</b>	: No data available		
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	: 83 - 555	OECD 114	
<b>Explosive properties</b>	: Not an explosive	EEC A.14	
<b>Oxidizing properties</b>	: Not oxidizing	EEC A.21	

**9.2. Other information**

<b>Bulk density g/ml</b>	: ----		Not Applicable
<b>Surface tension mN/m</b>	: 54	EEC A.5	
<b>Minimum ignition energy (MIE) mJ</b>	:		

**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**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
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 sensitization	: Not a skin sensitizer	Guinea pig	OECD 406; (M&K test)	

**Chronic toxicity****Germ cell mutagenicity**

**Chemical Name**  
Clofentezine : Not classified

**Carcinogenicity**

**Chemical Name**  
Clofentezine : Not Carcinogenic

**Reproductive toxicity**

**Chemical Name**  
Clofentezine : Not classified

**STOT - single exposure**

**Chemical Name**  
Clofentezine : No data available

**STOT - repeated exposure**

**Chemical Name**  
Clofentezine : No data available

**Aspiration hazard**

Chemical Name  
Clofentezine : No data available

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Acute toxicity

<u>Aquatic toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
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 Clofentezine	: > 3000	Mallard duck	US EPA 71-1	
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##### Bees Oral LD50 µg/bee

Chemical Name Clofentezine	: > 252.6		EPPO 170	
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### 12.2. Persistence and degradability

#### Abiotic Degradation

##### Water DT50 days

##### Chemical Name

Clofentezine	: 9.6			
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##### Soil DT50 days

##### Chemical Name

Clofentezine	: 63.8			
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#### Biodegradation

##### Chemical Name

Clofentezine	: Not readily biodegradable			
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### 12.3. Bioaccumulative potential

#### Partition Coefficient

##### (n-octanol/water) Log Pow

##### Chemical Name

Clofentezine	: 3.1	OECD 107	20 ° C	
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#### Bioconcentration factor (BCF)

##### Chemical Name

Clofentezine	: 248			
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### 12.4. Mobility in soil

#### Adsorption/Desorption

##### Chemical Name

Clofentezine	: 1064			Koc; Low mobility in soil
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**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**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORTATION INFORMATION

**IMDG/IMO**

<b>14.1 UN/ID No</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated ( )
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not regulated
<b>14.6 Special precautions for user</b>	

**RID/ADR**

<b>14.1 UN/ID No</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated ( )
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not regulated
<b>14.6 Special precautions for user</b>	

**ICAO/IATA**

<b>14.1 UN/ID No</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated ( )
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not regulated
<b>14.6 Special precautions for user</b>	
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	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**

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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 16: OTHER INFORMATION**

**Full text of R-phrases referred to under sections 2 and 3**

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

**Revision Date** 20-May-2014

**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**