



# SAFETY DATA SHEET

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

## **Apollo 50 SC**

Revision Date 24-Dec-2020

Version 3

Product No INS00034-44

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### **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; Professional use\*\*\*

Uses advised against

No information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier Address

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

Email address

ukenquiries@adama.com

#### 1.4. Emergency telephone number

Emergency Telephone

National Chemical Emergency Centre (UK):  
Tel: 01865 407333 (24 hours)  
National Poisons Information Centre (Republic of Ireland)  
Tel: 01 809 2166 (8am – 10pm 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]

Hazardous to the Aquatic  
Environment - Chronic Hazard

Category 2 - (H411)

## 2.2. Label elements

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

Hazard pictograms



|                                      |  |
|--------------------------------------|--|
| <b>Signal word</b>                   | none   |
| <b>Hazard Statements</b>             | H411 - Toxic to aquatic life with long lasting effects   |
| <b>Precautionary Statements</b>      | P102 - Keep out of reach of children<br>P501 - Dispose of contents/ container to an approved waste disposal plant  |
| <b>EU Specific Hazard Statements</b> | EUH401 - To avoid risks to human health and the environment, comply with the instructions for use<br>EUH208 - Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction. |
| <b>Additional phrases for PPP</b>    | 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

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]  | M-Factor | REACH Registration Number |
|------------------------------------|----------|------------|---------------|--------------|--|----------|---------------------------|
| Clofentezine***                    | 41-45    | 74115-24-5 | 277-728-2     | -            | Aquatic Chronic 1 (H410)***  | M=1***   | -                         |
| Propane-1,2-diol ***               | 5-10     | 57-55-6    | 200-338-0     | -            | -  |          | 01-2119456809-23***       |
| Lignosulfonic acid, sodium salt*** | 1-2      | 8061-51-6  | 617-124-1 *** | -            | Eye Irrit. 2 (H319)***   |          | -                         |
| 1,2-Benzisothiazolin-3-one***      | <0.05    | 2634-33-5  | 220-120-9     | 613-088-00-6 | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Acute Tox. 4 (H302)<br>Aquatic Acute 1 (H400)<br>*** |          | 01-2120761540-60-XXXX***  |

Full text of H- and EUH-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>                          | 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**

**Symptoms** None known.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**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**

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**

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**

| Chemical Name                   | European Union | United Kingdom   | France | Spain   | Germany   |
|---------------------------------|----------------|--|--------|---|---|
| Propane-1,2-diol ***<br>57-55-6 |                | STEL: 450 ppm<br>STEL: 1422 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>TWA: 150 ppm<br>TWA: 474 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup> |        |   |   |
| Chemical Name                   | Austria        | Switzerland  | Poland | Norway  | Ireland   |
| Propane-1,2-diol ***<br>57-55-6 |                |  |        | TWA: 25 ppm<br>TWA: 79 mg/m <sup>3</sup><br>STEL: 37.5 ppm<br>STEL: 118.5 mg/m <sup>3</sup> | TWA: 150 ppm<br>TWA: 470 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup> |

**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**

Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

**Body Protection**

Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**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

| <u>Property</u>                                 | <u>Values</u>                | <u>Method</u> | <u>Remarks</u>                      |
|---|------------------------------|---------------|-------------------------------------|
| <b>Appearance</b>                               |                              |               |                                     |
| Physical state                                  | : suspension                 |               |                                     |
| Color   | : dark red                   |               |                                     |
| Odor  | : Slight                     |               |                                     |
| Odor threshold                                  | : No data available          |               |                                     |
| pH  | : 6.7 - 7.7                  | CIPAC MT 75   | solution (1%)                       |
| Melting point/freezing point °C                 | : ----                       |               | Not Applicable                      |
| 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          |               |                                     |
| Vapor pressure kPa                              | : ----                       |               | Not Applicable                      |
| Vapor density                                   | : No data available          |               |                                     |
| Relative density                                | : 1.15 - 1.25                | OECD 109      |                                     |
| Solubility(ies) mg/l                            | : ----                       |               | 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 <sup>2</sup> /s 40 °C    | : 83 - 555                   | OECD 114      |                                     |
| Explosive properties                            | : Not an explosive           | EEC A.14      |                                     |
| Oxidizing properties                            | : Not oxidizing              | 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

No data 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

None under normal use conditions.

**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\*\*\* : Not classified\*\*\*

**STOT - repeated exposure**

**Chemical Name**  
Clofentezine\*\*\* : Not classified\*\*\*

**Aspiration hazard**

**Chemical Name**  
Clofentezine\*\*\* : Not classified\*\*\*

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Aquatic toxicity**

|   | <u>Values</u> | <u>Species</u>               | <u>Method</u>        | <u>Remarks</u> |
|---|---------------|------------------------------|----------------------|----------------|
| <b>Acute toxicity</b><br>Fish 96-hour LC50 mg/l | : > 20        | Oncorhynchus mykiss          | US 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 |
| <b>Chronic aquatic toxicity</b>                 | <u>Values</u> | <u>Species</u>               | <u>Method</u>        | <u>Remarks</u> |
| Fish NOEC mg/l                                  | : 2.3***      | Fathead Minnow***            | OECD 210***          | 28d***         |
| Crustacea NOEC mg/l                             | : 0.5***      | Daphnia magna***             | OECD 202***          |                |
| Algae NOEC mg/l                                 | : > 80***     | Selenastrum capricornutum*** | OECD 201***          |                |

Other plants NOEC mg/l : No data available

**Terrestrial Toxicity**

**Birds Oral LD50 mg/kg**

Chemical Name

Clofentezine\*\*\* : > 3000 Mallard duck US EPA 71-1

**Bees Oral LD50 µg/bee**

Chemical Name

Clofentezine\*\*\* : > 252.6 EPPO 170

**12.2. Persistence and degradability**

**Abiotic Degradation**

**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**

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

Chemical Name

Clofentezine\*\*\* : 3.1 OECD 107 20 ° C

**Bioconcentration factor (BCF)**

Chemical Name

Clofentezine\*\*\* : 248

**12.4. Mobility in soil**

**Adsorption/Desorption**

Chemical Name

| <u>Values</u>          | <u>Method</u> | <u>Remarks</u>            |
|------------------------|---------------|---------------------------|
| Clofentezine*** : 1064 |               | 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.

**Section 14: TRANSPORTATION INFORMATION**

**IMDG/IMO**

14.1 UN/ID No \* UN3082\*\*\*  
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*\*\* ( Clofentezine )\*\*\*  
 14.3 Hazard Class 9\*\*\*  
 14.4 Packing Group III\*\*\*  
 14.5 Marine pollutant Yes\*\*\*  
 14.6 Special precautions for user

**RID/ADR**

14.1 UN/ID No \* UN3082\*\*\*  
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*\*\* ( Clofentezine )\*\*\*  
 14.3 Hazard Class 9\*\*\*  
 14.4 Packing Group III\*\*\*  
 14.5 Environmental hazard Yes\*\*\*  
 14.6 Special precautions for user  
 14.7 Tunnel restriction code -

**ICAO/IATA**

14.1 UN/ID No \* UN3082\*\*\*  
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*\*\* ( Clofentezine )\*\*\*  
 14.3 Hazard Class 9\*\*\*  
 14.4 Packing Group III\*\*\*  
 14.5 Environmental hazard Yes\*\*\*  
 14.6 Special precautions for user  
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable



\* 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**

| Trade name     | Registration number | Registration date |
|----------------|---------------------|-------------------|
| Not Applicable | Not Applicable      | Not Applicable    |

**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 16: OTHER INFORMATION

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

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H400 - Very toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects\*\*\*

### List of 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  
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

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

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

### Process of classification evaluation in accordance with CLP regulation.

#### Classification of the mixture

H411 - Toxic to aquatic life with long lasting effects\*\*\*

#### Classification procedure

Classification based on test data\*\*\*

#### 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