

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

#### 1.1. Product identifier

Product name : ASTERIA ULTRA 1.8 EC  
Product code : FI-001 - Abamectin 18g/L EC -

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/preparation : Agriculture insecticide/Acaricide

##### 1.2.2. Uses advised against

No additional information available

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

Rotam Europe Ltd  
Hamilton House, Mabledon Place  
London WC1H 9BB  
United Kingdom  
Tel : +44 020 7953 0447  
[msds@rotam.com](mailto:msds@rotam.com)

#### 1.4. Emergency telephone number

Emergency number : 210 77 93 777 - Τηλ. Κέντρου Δηλητηριάσεων Ελλάδας (Greece)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Acute Tox. 4 (oral),H302  
Acute Tox. 4 (inhalation),H332  
Eye Irrit. 2, H319  
STOT RE 2, H335  
STOT SE 3,H373  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410  
Full text of H-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard symbols :



Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302 - Harmful if swallowed.  
H332 - Harmful if inhaled.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.

##### **Contains Cyclohexanol and Butylated hydroxytoluene**

Precautionary statements (CLP) :

P405+P102 - Store locked up. Keep out of reach of children.  
P260 - Do not breathe vapours/spray.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves and protective clothing.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# ASTERIA ULTRA 1.8 EC

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|                        |  |
|------------------------|--|
| EUH phrases            | : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use  |
| PPP safety precautions | : SP1 - Do not contaminate water with the product or its container<br>SPe3 - To protect aquatic organisms and non-target organisms apply the following measures of protection:<br>- For applications in leafy crops and vegetables, leave an unsprayed buffer zone of 10 meters.<br>- For applications in citrus fruits leave an unsprayed zone protection of 20 meters or alternatively unsprayed zone 10 meters in combination with low dispersion nozzles that achieve 75% reduction of the dispersion of spraying liquid.<br>- For applications in other crops, leave an unsprayed protection zone of 30 meters or alternatively unsprayed zone 15m combination with low dispersion nozzles that achieve 90% reduction in the dispersion of the spray liquid.<br>SPe3 - To protect non-target arthropods apply the following measures of protection:<br>- For applications in citrus and pome, leave an unsprayed protection zone of 15m.<br>- For applications in horticultural leave an unsprayed zone protection of 5 m of uncultivated land.<br>SPe8 - Potentially dangerous to bees. To protect bees and other pollinating insects do not use the product on crops during flowering or when weeds flowering period. Do not use the product during the period in which the bees collect.<br>For the bees protection, the beekeepers of the area must be informed, in order the bees be removed from the area for at least:<br>- 39 hours after the application on pome fruits and citrus<br>- 43 hours after the application on field tomatoes<br>- 96 hours after the application on greenhouse crops, launching bumblebee / bees in greenhouses. |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                             | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|----------------------------------|---|---------|--|
| Cyclohexanol                     | (CAS No.) 108-93-0<br>(EC no) 203-630-6<br>(EC index no) 603-009-00-3 | 30 - 40 | Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Oral), H302<br>STOT SE 3, H335<br>Skin Irrit. 2, H315   |
| 2,6-di-tert-butyl-4-methylphenol | (CAS No.) 128-37-0<br>(EC no) 204-881-4                               | 1 - 5   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Aquatic Chronic 1, H410   |
| Abamectin                        | (No CAS) 71751-41-2<br>(No CE) 265-610-3                              | 1.88    | Repr. 2, H361d<br>Acute Tox. 2 (Oral), H300<br>Acute Tox. 1 (Inhalation), H330<br>STOT RE 1, H372<br>Aquatic Acute 1, H400 (M=10000)<br>Aquatic Chronic 1, H410<br>(M=10000) |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Call a physician or poison control center. Poison Center: 210 7793777   |
| First-aid measures after inhalation   | : Move the patient to fresh air. Keep him/her warm and at rest. Call a doctor or the Center Poison.   |
| First-aid measures after skin contact | : Remove contaminated clothing and rinse the affected parts of the body with water. If irritation persists call a physician. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  |
| First-aid measures after ingestion    | : DO NOT induce vomiting. Seek medical advice   |

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

No additional information available

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

Call a physician or poison control center immediately.

# ASTERIA ULTRA 1.8 EC

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).  
Unsuitable extinguishing media : high volume water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NO<sub>x</sub>).  
Explosion hazard : Product is not explosive.  
Reactivity : The product is stable at normal handling- and storage conditions.

#### 5.3. Advice for firefighters

Precautionary measures fire : Wear self-contained breathing apparatus and protective suit (see item 8).  
Firefighting instructions : Prevent runoff from entering drains, sewers or waterways.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

##### 6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).

#### 6.2. Environmental precautions

Do not allow material to contaminate ground water system.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Wear proper protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

No additional information available

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Hand protection : Protective gloves.  
Eye protection : Safety glasses or faceshield.  
Skin and body protection : Protective clothing.  
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Thin transparent liquid  
Colour : Light yellow  
Odour : Mild characteristic odor  
Odour threshold : No data available  
pH : 5.95 at 25°C (CIPAC(J) MT 75.3) ; 4.05 (1% solution at 25°C) (CIPAC MT 75.3)  
Melting point : No data available  
Solidification point : No data available

# ASTERIA ULTRA 1.8 EC

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|  |  |
|--|--|
| Boiling point                              | : No data available                                    |
| Flash point                                | : 84.0°C (CIPAC (F) MT12.2)                            |
| Relative evaporation rate (butylacetate=1) | : No data available                                    |
| Flammability (solid, gas)                  | : No data available                                    |
| Explosive limits                           | : Not explosive  |
| Vapour pressure                            | : No data available                                    |
| Relative vapour density at 20 °C           | : No data available                                    |
| Density                                    | : 1 g/ml (rounded value of 0.98078) (CIPAC(F) MT3.2.1) |
| Solubility                                 | : No data available                                    |
| Log Pow                                    | : not applicable as the product is a mixture           |
| Log Kow                                    | : not applicable as the product is a mixture           |
| Self ignition temperature                  | : 309 ± 5 °C (EE A.15)                                 |
| Decomposition temperature                  | : No data available                                    |
| Viscosity, kinematic                       | : No data available                                    |
| Viscosity, dynamic                         | : 0.12 Pa*s a 20°C ; 0.07 Pa*s a 40°C (OECD 114)       |
| Explosive properties                       | : Product is not explosive. (EEC A.14 )                |
| Oxidising properties                       | : No oxidising properties. (EEC A.21)                  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling- and storage conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

All heat sources, including direct sunlight.

### 10.5. Incompatible materials

strong acids, strong bases and oxidation agents.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| ASTERIA ULTRA 1.8 EC       |                                       |
|----------------------------|---------------------------------------|
| LD50 oral rat              | 671.4 mg/kg ,(OECD Guidelines n°425)  |
| LD50 dermal rat            | > 2000 mg/kg ,(OECD Guidelines n°402) |
| LC50 inhalation rat (mg/l) | 1.4125 mg/l , (OECD Guidelines n°403) |

|  |   |
|--|---|
| Skin corrosion/irritation                          | : Not irritating to skin ((OECD 404)<br>pH: 5.95 (25 °C, (CIPAC(J) MT 75.3))        |
| Serious eye damage/irritation                      | : Causes serious eye irritation. (OECD 405)<br>pH: 5.95 (25 °C, (CIPAC(J) MT 75.3)) |
| Respiratory or skin sensitisation                  | : Not classified  |
| Germ cell mutagenicity                             | : Not classified  |
| Carcinogenicity                                    | : Not classified  |
| Reproductive toxicity                              | : Not classified  |
| Specific target organ toxicity (single exposure)   | : May cause respiratory irritation.   |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure.                |
| Aspiration hazard                                  | : Not classified  |

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute toxicity : Very toxic to aquatic life with long lasting effects.

# ASTERIA ULTRA 1.8 EC

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Abamectin 18g/L EC (studies on a similar formulation as Rotam formulation) |  |
|--|--|
| LC50 (96h) fish  | 5.31 mg/L , ( <i>Brachydanio rerio</i> ) OECD Method n°203             |
| ErC50 (72h) algae  | 13.2 mg/L ,( <i>Selenastrum capricornutum</i> ) OECD Guidelines n° 201 |
| NOEC (96h) fish  | 3.2 mg/L , ( <i>Brachydanio rerio</i> ) OECD Guidelines n°203          |
| NOEC (72h) algae   | <1,0 mg/L ,( <i>Selenastrum capricornutum</i> ) OECD Guidelines n° 201 |

| ASTERIA ULTRA 1.8 EC    |   |
|-------------------------|---|
| EC50(48h) daphnia       | 0.0214 mg/L, ( <i>Daphnia magna</i> ) OECD Guidelines n°202     |
| NOEC (48h) daphnia      | 0.0063 mg/L, ( <i>Daphnia magna</i> ) OECD Guidelines n°202     |
| LD50 oral (48h) bees    | 0.148 µg / bee ,( <i>Apis mellifera</i> ) OECD Guidelines n°213 |
| LD50 contact (48h) bees | 0.35 µg / bee ,( <i>Apis mellifera</i> ) OECD Guidelines n°214  |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No. : 3082

### 14.2. UN proper shipping name

Proper Shipping Name ADR / RID / ADNR / IMDG / ICAO / IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin)

Transport document description ADR : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((abamectin)), 9, III, (E)

Transport document description IMDG : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((abamectin)), 9, III, (E) MARINE POLLUTANT

### 14.3. Transport hazard class(es)

Class (UN) : 9

Hazard labels (UN) : 9



### 14.4. Packing group

Packing group (UN) : III

### 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes



Other information : No supplementary information available.

# ASTERIA ULTRA 1.8 EC

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90  
Classification code : M6  
Orange plates :



Tunnel restriction code : E  
Limited quantities (ADR) : LQ07  
Excepted quantities (ADR) : E1  
EAC code : •3Z

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 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

#### 15.1.1. EU-Regulations

No Annex XVII restrictions  
Contains no REACH candidate substance

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of , H- and EUH-phrases:

|                           |   |
|---------------------------|---|
| Acute Tox. 1 (Inhalation) | Acute toxicity (inhalation) Category 1  |
| Acute Tox. 2 (Oral)       | Acute toxicity (oral) Category 2  |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4  |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral) Category 4  |
| Acute Tox. 4 (dermal)     | Acute toxicity (dermal) Category 4  |
| Aquatic Acute 1           | Hazardous to the aquatic environment - Acute Hazard Category 1                            |
| Aquatic Chronic 1         | Hazardous to the aquatic environment - Chronic Hazard Category 1                          |
| Eye Irrit. 2              | Serious eye damage/eye irritation Category 2  |
| Repr. 2                   | Reproductive toxicity Category 2  |
| Skin Irrit. 2             | Skin corrosion/irritation Category 2  |
| STOT SE 3                 | Specific target organ toxicity (single exposure) Category 3                               |
| STOT RE 1                 | Specific target organ toxicity (repeated exposure) Category 1                             |
| STOT RE 2                 | Specific target organ toxicity (repeated exposure) Category 2                             |
| H300                      | Fatal if swallowed  |
| H302                      | Harmful if swallowed  |
| H312                      | Harmful in contact with skin.   |
| H315                      | Causes skin irritation  |
| H319                      | Causes serious eye irritation   |
| H330                      | Fatal if inhaled  |
| H332                      | Harmful if inhaled  |
| H335                      | May cause respiratory irritation  |
| H361d                     | Suspected of damaging the unborn child.   |
| H372                      | Causes damage to organs through prolonged or repeated exposure .                          |
| H373                      | May cause damage to organs through prolonged or repeated exposure .                       |
| H400                      | Very toxic to aquatic life  |
| H410                      | Very toxic to aquatic life with long lasting effects                                      |
| EUH401                    | To avoid risks to human health and the environment, comply with the instructions for use. |

SDS EU (REACH Annex II) Disclaimer: The information provided by Rotam Europe Ltd contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.