

**SAFETY DATA SHEET (SDS)**

TITLE: **ABAMECTIN 18 EC**

**1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING**

**1.1 Product Identifier**

Identification on the label / Trade name : CIBA ABAMECTIN 18 EC  
 Common Name : Abamectin 18g/l EC  
 CAS No. : 71751-41-2  
 EC No. : N/A  
 Index Number : 606-143-00-0  
 REACH registration No. : N/A

**1.2 Relevant identified uses of the substance and uses advised against:**

**1.2.1 Agricultural Insecticide**

**1.3 Details of the Manufacturer / Supplier of the safety data sheet:**

Supplier CIBA AGRIPHARMA SARL  
 78 Boulevard Haussmann  
 75008 Paris , France  
 Tel Tel: +33 6 51 39 90 00  
 E-mail administration@ciba- agripharma.com  
 Webpage www. ciba- agripharma.com

**1.4 Emergency Phone Number (24 hours)**

+33 6 51 39 90 00

**2.0 HAZARDS IDENTIFICATION**

**2.1 Classification of the mixture:**

**2.1.1 Classification:**

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008 (CLP).

1272/2008/EU	
Pictograms / Signal word code (s)	Hazard Statement Code (s)

GHS02, GHS08, GHS09, GHS05, GHS07	H302, H312, H226, H410, H332, H373
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For full text of H-phrases: see section 2.2.1

## 2.2 Label elements

### 2.2.1 According to 1272/2008/EU REGULATION

#### Pictograms / Signal word code (s)



GHS02

GHS08

GHS09

GHS07

GHS05

#### Hazard Statement Code(s)

- H302 : Harmful if swallowed
- H312 : Harmful in contact with skin
- H318 : Causes serious eye damage
- H332 : Harmful if inhaled
- H410 : Very toxic to aquatic life with long lasting effects.
- H412 : Harmful to aquatic life with long lasting effects
- H226 : Flammable liquid and vapor
- H373 : May cause damage to organs through prolonged or repeated exposure

## 2.3 Other hazards

Specific concentration Limits and M factors: 10.000

## 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name / CAS No	% w/v	Hazard Pictograms (1272/2008/EC)	Hazard Statements (1272/2008/EC)
Abamectin / 71751-41-2	1.8	GHS06, GHS08, GHS09, Dgr	H361d, H300, H330, H372, H400, H410
Cyclohexanone / 108-94-1	30	GHS02, GHS07, Wng	H226, H332
Octylphenol ethoxylate / 9036-19-5	20	GHS05, GHS07	H302, H318, H412

Xylene/ 1330-20-7	45%	GHS02, GHS07, Wng	H226, H332, H315, H312
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#### 4.0 FIRST AID MEASURES

##### 4.1 Description of first aid measures

###### 4.1.1 General information

Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from undercooling. IN CASE OF SUSPECTED POISONING: Immediately call a physician.

###### 4.1.2 In case of inhalation

Immediately remove to fresh air.

###### 4.1.3 In case of skin contact

Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

###### 4.1.4 In case of eyes contact

Rinse eyes with clean water for several minutes and immediately call a physician.

###### 4.1.5 In case of ingestion

Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

###### 4.1.6 Notes for the doctor

No specific antidote is known. Apply symptomatic therapy

#### 5.0 FIRE – FIGHTING MEASURES

##### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).

Unsuitable extinguishing media : N/A

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

Hazardous combustion products : carbon dioxide; carbon monoxide

##### 5.3 Advice for fire-fighters

Flammable liquid. Flash point 62 °C. When heated above flash point, this product releases vapors which when mixed with air, can burn or be explosives. Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably. Use self contained breathing apparatus. Wear protective equipment.

#### 5.4 Additional information

This product is combustible at elevated temperatures.

### 6.0 ACCIDENTAL RELEASE MEASURES

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

##### 6.1.1 For non-emergency personnel

Protective equipment : Wear protective clothing and personal protective equipment as prescribed in Section 8.

Emergency procedures : N/A

##### 6.1.2 For emergency responders

Personal protective equipments : See section 8.

#### 6.2 Environmental precautions

Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers.

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

##### 6.3.1 For containment

See section 7.1

##### 6.3.2 For cleaning up

In case materials are released, contact emergency response personnel. Keep unnecessary persons away. If emergency response personnel are unavailable, absorb small spills on spill pillows or other suitable absorbing material (sand or earth) and place in a sealed container for disposal. Dike large spills and transfer to an appropriate container for disposal.

#### 6.4 Other information

N/A

#### 6.5 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

#### 6.6 Additional information

N/A

### 7.0 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

##### 7.1.1 Protective measures

Fire preventions : Use non-sparking type tools and equipment, including explosion proof ventilation.

Environmental precautions : Do not contaminate waters and sewers

## 7.2 Advice on general occupational by hygiene

Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

## 7.3 Conditions for safe storage, including any incompatibilities

- Technical measures and storage conditions : Protect from light and humidity.
- Packaging materials : Store the product in closed original containers.
- Requirements for storage rooms and vessels : N/A
- Hints on storage assembly : N/A
- Further information on storage conditions : Store separately from animal feed, food and stimulants. Store in original container only in cool, dry, well ventilated secure area.

## 7.4 Specific and use(s)

- Recommendations : Keep out of reach of children and animals.
- Industrial sector specific solutions : N/A

## 8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limits:

Exposure limit: (abamectin) 0.02 mg/m<sup>3</sup> (8hTWA)

### 8.2 Additional exposure limits under the conditions of use:

Not available

### 8.3 DNEL/DMEL and PNEC-Values:

Not available.

### 8.4 Exposure controls

#### 8.4.1 Appropriate engineering controls

Not available

### 8.5 Personal protection equipment

In general change working clothes daily. Wash thoroughly. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap and soda solution.

### 8.6 Eye / Face protection

Use goggles or face-shield

### 8.7 Skin Protection

For hand protection use chemical-resistant gloves

For body protection use heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Heavy-duty shoes or boots.

## 8.8 Respiratory protection

In case of heavy exposure, wear: Gas mask with universal filter or respirator.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	Light yellow
Odour	:	Characteristic
Odour threshold	:	N/A
pH	:	4.5-7.0
Melting point/rang (°C)	:	N/A
Boiling point/range (°C, 0.8mmHg)	:	N/A
Flash point (°C)	:	62
Ignition temperature (°C)	:	N/A
Upper/lower flammability/explosive limits	:	N/A
Vapour pressure (°C)	:	N/A
Water solubility (g/l)	:	N/A
n-Octanol/Water (log Po/w)	:	N/A
Auto-ignition temperature	:	N/A
Decomposition temperature	:	N/A
Viscosity, dynamic (mPa s)	:	N/A

### 9.2 Other information

Fat solubility (solvent-oil to be specified) etc	:	N/A
Bulk Density	:	approx 1.0 g/ml
Dissociation constant in water (pKa)	:	N/A
<i>Oxidation-reduction Potential</i>	:	N/A

## 10.0 STABILITY AND RELIABILITY

### 10.1 Reactivity

Not available

### 10.2 Chemical stability

Product is stable under normal storage conditions.

### 10.3 Possibility of hazardous reactions

Not available

### 10.4 Conditions to avoid

Flame, fire and high temperature.

### 10.5 Incompatible materials

Avoid mixing with highly reactive chemicals such as strong acids, bases or oxidizing materials.

### 10.6 Hazardous decomposition products

N/A

## 11.0 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

- LD50 (Dermal) : > 2000 mg/kg (rat)
- LD50 (Oral, Rat) : > 1000 mg/kg (rat)
- Inhalation LC50 : >2 mg/l

Skin corrosion/Irritation : non irritant (rabbit)

Serious eye damage/irritation : Mild-eye irritant (rabbit)

Sensitization : not sensitizing (guinea pig)

Repeated exposure : N/A

#### Other information

Germ cell mutagenicity : N/A

Carcinogenicity : N/A

Reproductive toxicity : N/A

STOT- single exposure : N/A

STOT- repeated exposure : N/A

Aspiration hazard : N/A

## 12.0 ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### 12.1.1 Aquatic Toxicity

LC50: 0.247 mg/l (Oncorhynchus mykiss (Rainbow trout); 96 h; Static conditions)

#### 12.2 Avian Toxicity

Acute oral LD<sub>50</sub> for mallard ducks 84.6, bobwhite quail >2000 mg/kg.

### 12.3 Bee Toxicity

Abamectin is toxic to bees.

### 12.4 Persistence and degradability

No information available

### 12.5 Mobility in soil

Abamectin binds tightly to soil, with rapid degradation by soil micro-organisms. No bioaccumulation.

### 12.6 Result of PBT & vPvB assessment

Not available

### 12.7 Other adverse effects

Not available

## 13.0 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

See section 6.3.2.

### 13.2 Product / Packaging disposal

#### 13.2.1 Product waste disposal

Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains.

Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

#### 13.2.2 Packing waste disposal

Dispose of empty containers in an incinerator approved for chemicals.

Damaged containers: Place the original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

## 14.0 TRANSPORT INFORMATION

### 14.1 Land transport (ADR/RID/GGVSE)

UN-No	:	UN 2903
Proper shipping name	:	PESTICIDE, LIQUID, TOXIC, FLAMMABLE <b>N.O.S.</b> (Abamectin and Dimethylbenzene) flash point 23°C or more
Class(es)	:	6.1 (3)
Classification Code (s)	:	-
Packing group	:	III
Hazard label(s)	:	6.1 ,3

#### 14.2 Sea transport (IMDG-Code/GGVSee)

UN-No	:	UN 2903
Proper shipping name	:	PESTICIDE, LIQUID, TOXIC, FLAMMABLE <b>N.O.S.</b> (Abamectin and Dimethylbenzene) flash point 23°C or more
Class(es)	:	6.1
Subsidiary Risks	:	3
Packing group	:	III
Marine Pollutant	:	YES
Label (s)	:	6.1, 3, Marine pollutant

#### 14.3 Air transport (ICAO-IATA/DGR)

UN-No	:	UN 2903
Proper shipping name	:	PESTICIDE, LIQUID, TOXIC, FLAMMABLE <b>N.O.S.</b> (Abamectin and Dimethylbenzene) flash point 23°C or more
Class(es)	:	6.1 (3)
Packing group	:	III
Label (s)	:	6.1, 3

### 15.0 REGULATORY INFORMATION

#### 15.1 Hazard and Precautionary statements in accordance with the regulation 1272/2008/EC

Pictograms and Signal Word Code(s)	See section 2. 1
Hazard Statement Code (s)	See section 2. 1

### 16.0 OTHER INFORMATION

**16.1 Pictograms / Signal word code (s) mentioned in section 3 in accordance with the regulation 1272/2008/EC,**  
See section 2.1

**16.2 Hazard statements mentioned in section 3 in accordance with the regulation 1272/2008/EC:**  
See section 2.1

#### 16.3 Further Information

The information contained herein relates only to the specified material identified. CIBA AGRIPHARMA believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. CIBA AGRIPHARMA urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This material safety data sheet adopts the provisions of the European Commission Directive 2001/58/EC and Regulations 1272/2008 (CLP) and 453/2010 (REACH).