

**SAFETY DATA SHEET (SDS)**TITLE: **CHLORFENAPYR 240 SC****1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING****1.1 Product Identifier**

Identification on the label / Trade name : AG CHLORFENAPYR 240 SC  
Common Name : Chlorfenapyr 240 g/l SC  
CAS No. : 122453-73-0  
EC No. : N/A  
Index Number : 608-034-00-3  
REACH registration No. : N/A

**1.2 Relevant identified uses of the substance and uses advised against:****Insecticide****1.3 Details of the Manufacturer / Supplier of the safety data sheet:**

Supplier AGROMECC SARL  
P.O.Box: 462  
Jounieh, Lebanon  
Tel +961 9 226874  
E-mail agromec@agromec-international.com  
Webpage www.agromec-international.com

**1.4 Emergency Phone Number (24 hours)****+961 3 980599****2.0 HAZARDS IDENTIFICATION****2.1 Classification of the mixture:**

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)

Acute Tox. 3 (Inhalation - mist)

Aquatic Acute 1

Aquatic Chronic 1

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2 Label elements

### According to 1272/2008/EU REGULATION

Pictograms / Signal word code (s)

Danger



Hazard Statement code (s)

H331 Toxic if inhaled.

H302 Harmful if swallowed.

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.

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.

P261 Avoid breathing mist.

P270 Do not eat, drink or smoke when using this product.

P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P311 Call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P391 Collect spillage.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Precautionary Statements (Disposal):

P501

Dispose of contents/container to hazardous or special waste collection point.

### 2.3 Other hazards

Specific concentration Limits and M factors: Not available

## 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

crop protection product, insecticide, suspension concentrate (SC)

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile

Content (W/W): 21.4 %

CAS Number: 122453-73-0

INDEX-Number: 608-034-00-3

Acute Tox. 3 (Inhalation - dust)

Acute Tox. 4 (oral)

Aquatic Acute 1

Aquatic Chronic 1

M-factor acute: 100

M-factor chronic: 100

H331, H302, H400, H410

Propane-1,2-diol

Content (W/W): < 10 %

CAS Number: 57-55-6

EC-Number: 200-338-0

REACH registration number: 01-2119456809-23

## 4.0 FIRST AID MEASURES

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## **5.0 FIRE – FIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons:

water jet

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

carbon monoxide, Carbon dioxide, hydrogen chloride, nitrogen oxides, organochloric compounds

The substances/groups of substances mentioned can be released in case of fire.

### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## **6.0 ACCIDENTAL RELEASE MEASURES**

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

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

### **6.2. Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Cleaning operations should be carried out only while wearing breathing apparatus. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

### **6.4. Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## **7.0 HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Ensure thorough ventilation of stores and work areas. No special measures necessary if stored and handled correctly. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

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

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## **8.0 EXPOSURE CONTROL/PERSONAL PROTECTION**

### **8.1. Control parameters**

Components with occupational exposure limits: 57-55-6: Propane-1,2-diol

### **8.2. Exposure controls**

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form: suspension

Colour: white to light brown

Odour: sweetish, characteristic

Odour threshold: Not determined since toxic by inhalation.

pH value: approx. 6 - 8 (approx. 25 °C) (measured with the undiluted substance)

Freezing point: approx. 0 °C (1,013.3 hPa) Information applies to the solvent.

Boiling point: approx. 100 °C (1,013 mbar) Information applies to the solvent.

Flash point: No flash point - Measurement made up to the boiling point.

Evaporation rate: not applicable

Flammability: not flammable

Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature: Based on the water content the product does not ignite.

Vapour pressure: approx. 23.3 hPa (20 °C) Information applies to the solvent.

Density: approx. 1.13 g/cm<sup>3</sup> (20 °C)

## 9.2 Other information

If necessary, information on other physical and chemical parameters is indicated in this section

### 10.0 STABILITY AND RELIABILITY

#### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

#### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

#### 10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

#### 10.5. Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

#### 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

### 11.0 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of high toxicity after short-term inhalation. Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): 560 - 567 mg/kg

LC50 rat (by inhalation): 0.571 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

LD50 rabbit (dermal): > 2,000 mg/kg

No mortality was observed.

Irritation

Assessment of irritating effects:

Skin contact causes slight irritation. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Slightly irritating.

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

Other relevant toxicity information

Misuse can be harmful to health.



## 12.0 ECOLOGICAL INFORMATION

### 12.1. Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Toxicity to fish:

LC50 (96 h) 0.0239 mg/l, *Oncorhynchus mykiss* (Flow through.)

Aquatic invertebrates:

EC50 (48 h) 0.012 mg/l, *Daphnia magna* (static)

Aquatic plants:

EC50 (72 h) 4.09 mg/l, *Selenastrum capricornutum* (OECD Guideline 201)

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria).

Information on: chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile

#### Elimination information:

approx. 20 % CO<sub>2</sub> formation relative to the theoretical value (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic)

## 13.0 DISPOSAL CONSIDERATIONS

### Waste treatment methods

Material which cannot be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. If burned, stay out of smoke.

### Product / Packaging disposal

Do not contaminate water supplies by disposal of wastes or containers. Dispose of water product through a reputable waste contractor.

## 14.0 TRANSPORT INFORMATION

### ADR

UN number

UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains CHLORFENAPYR 24%)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: Tunnel code: E

#### IMDG

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains CHLORFENAPYR 24%)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

#### IATA

UN number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains CHLORFENAPYR 24%)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

## 15.0 REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

### 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

## 16.0 FURTHER INFORMATION

The information contained herein relates only to the specified material identified. AGROMECC., 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



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