

SAFETY DATA SHEET (SDS)		
TITLE:	ETOXAZOLE 110 SC	

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

### 1.1 Product Identifier

Identification on the label / Trade name : AG ETOXAZOLE 110 SC

Common Name : Etoxazole 110 g/L SC

Index Number : N/A

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 AGROMEC 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 substance or mixture

### Classification (EC 1272/2008)

Physical hazards None
Health hazards None

**Environmental hazards** Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

2.2. Label elements





**Pictogram** 

Signal word Warning

Hazard statements H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements P391 Collect spillage.

P501 (UK) Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed

of as non-hazardous waste.

P501 (IE) Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple-rinsed empty containers which can be disposed of as

non-hazardous waste.

**Supplemental label information** EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

Special risks and safety precautions

(Commission Regulation (EU)

547/2011):

**General provisions** 

Special risks and safety precautions (Commission Regulation (EU)

547/2011):

Specific safety precautions

SP1 Do not contaminate water with the product or its container. (Do not clean

application equipment near surface water.)

SPe3 To protect aquatic organisms respect an unsprayed buffer zone of (as indicated

on the label) to surface water bodies.

**2.3. Other hazards** None known.

# 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Classification according to Regl 1272/2008

#### 3.2 Mixtures

Classification according to Regl 1272/2008

(RS)-5-tert-butyl-2-[2-(2,6-difluorophenyl)-4,5-dihydro-1,3-oxazol-4-yl] phenetole

11%



CAS number: 153233-91-1 M factor (Acute) = 100

M factor (Chronic) = 100

Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

1,2-benzisothiazol-3(2H)-one ≥ 0.005 - < 0.1%

EC number: 220-120-9 CAS number: 2634-33-5

M factor (Acute) = 1

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

**Composition comments** All percentages displayed expressed as weight/weight.

Other information Code ID: PHIL 98/03

#### 4.0 **FIRST AID MEASURES**

# 4.1. Description of first aid measures

**General information** If in doubt, get medical attention promptly.

Inhalation Move affected person to fresh air at once. If symptoms persist, seek medical advice. Ingestion

Rinse mouth. Never induce vomiting in unconscious or confused persons. Get

medical attention

Skin contact Remove contaminated clothing and rinse skin thoroughly with water.

Rinse immediately and as long as possible with plenty of water. Eyelids should be Eye contact

held away from the eyeball to ensure thorough rinsing. Seek medical advice if

irritation develops.

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

**General information** No typical symptoms and effects known.

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

Notes for the doctor No specific recommendations.

#### 5.0 FIRE - FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media Dry chemical powder. Carbon dioxide (CO2). Sand. Water.

Unsuitable extinguishing media None known.

# 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion** In case of fire: No known hazardous decomposition products.

products

# 5.3. Advice for firefighters

Protective actions during Water used to extinguish a fire should not be allowed to enter the drainage system



**firefighting** or watercourses

Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate

**for firefighters** protective clothing.

#### 6.0 ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel Wear protective gloves, safety goggles or face shield, and suitable protective clothing.

Remove ignition sources. Evacuate the danger area.

For emergency responders Wear protective nitrile gloves, safety goggles or face shield, and suitable protective

clothing. Remove ignition sources. Evacuate the danger area or consult an expert.

6.2. Environmental precautions

**Environmental precautions**Do not allow escape into sewage system or watercourses. Do not wash residues

into drains or other waterways.

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

**Containment of a spill** Do not allow escape into sewage system or watercourses.

Methods for cleaning up In case of spill (liquid) soak it up immediately with suitable absorbent such as sawdust

or granular absorbent clay. Sweep up and place into sealable containers. Dig up heavily contaminated soil and place into drums. Use a damp cloth to clean floors and other objects, and also place in sealable container. Dispose of all waste and contaminated clothing in the same manner as waste chemicals (i.e. via an authorized

disposal facility). Do not wash residues into drains or other waterways.

6.4. Reference to other sections

**Reference to other sections** For personal protection see section 8.

### 7.0 HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Fire and explosion prevention No specific recommendations.

**Usage precautions** Follow precautions for safe handling described in this safety data sheet. Avoid

spilling. Do not allow to escape into sewage system or water courses.

Advice on general occupational

hygiene

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

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

Storage precautions Store in tightly-closed, original container in a dry and cool place. Keep container in a

well-ventilated place. Keep away from food, drink and animal feedingstuffs.

Other information Do not mix with water (except for the normal preparation). Store away from

incompatible materials (see Section 10).

7.3. Specific end use(s)

**Specific end use(s)** See label on the container.

# 8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

#### 8.1. Control parameters

Occupational exposure limits There is no national exposure limit for this product.

No chemical safety report is required for this kind of product.

8.2. Exposure controls

**Appropriate engineering controls** Provide adequate ventilation.

Eye/face protection Wear safety goggles or face shield.



**Hand protection** Wear protective nitrile gloves.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene measures** Wash contaminated clothing before reuse.

**Respiratory protection** The usual precautions for handling chemicals should be observed.

### 9.0 PHISICAL AND CHEMICAL PROPERTIES

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

Name Etoxazole, 110 g/l suspension concentrate (Code ID: PHIL 98/03)

Appearance Opaque liquid (visual inspection)

**Colour** White (visual inspection)

Odour Faint chemical (Olfactory assessment)

Odour threshold Not determined

pH (diluted solution): 7.7 (1%) @ 24°C (CIPAC MT 75.2 handbook F)

Melting point -4.3°C (freezing point)

Initial boiling point and range Not determined

Flash point > 70°C Abel-Pensky

Evaporation rate Not applicable

Flammability (solid, gas) Not flammable

Vapour pressure Not determined

Vapour density Not applicable

Relative density 1.03 g/ml @ 20°C (CIPAC MT 3.3.2 handbook F) (density bottle)

Bulk density Not applicable

Solubility(ies) Dispersible in water. (Etoxazole : Solubility : 0.0704 mg/l water @ 20°C (column

elution method) (EEC A.6))

Solubility in other solvents Not applicable

Partition coefficient Not applicable. (Etoxazole : log Pow: 5.5 @ 20°C (EEC A.8) )

**Auto-ignition temperature** Not auto-flammable up to 600°C (EEC A.15)

**Decomposition temperature**Not determined. (Etoxazole : The substance decomposed during the boiling point test,

with onset at 293°C (EEC A.2))



#### 10.0 STABILITY AND RELIABILITY

10.1. Reactivity

**Reactivity** Stable under recommended storage and handling conditions. See also section 7.

10.2. Chemical stability

Stability Stable for a minimum of 2 years under recommended storage and handling

conditions. See section 7.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

10.4. Conditions to avoid

**Conditions to avoid** Avoid high temperature, light, humidity.

10.5. Incompatible materials

Materials to avoid None known.

10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire: No known hazardous decomposition products. See also section 5.

#### 11.0 TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

**Toxicological effects**No experimental toxicological data are available on the preparation as such.

Name Etoxazole, 110 g/l suspension concentrate (Code ID: TN02) (Close formulation)

Acute toxicity - oral

Acute toxicity - oral LD<sub>50</sub> rat: >5000 mg/kg (EEC B.1)

**Acute toxicity - dermal** 

Acute toxicity - dermal LD<sub>50</sub> rat: >2000 mg/kg (EEC B.3)

**Acute toxicity - inhalation** 

Acute toxicity - inhalation LC<sub>50</sub> rat (4 hours): > 1.09 mg/l, maximum feasible concentration, whole body (OECD

403)

Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating (EEC B.4)

Serious eye damage/irritation

Serious eye damage/irritation Mildly irritating (EEC B.5)

Skin sensitisation

**Skin sensitisation**Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. (EEC B.6)

# **Toxicological information on ingredients**

Name Active substance; Etoxazole, technical grade

**Acute toxicity - oral** 

Acute toxicity - oral LD<sub>50</sub> rat: >5000 mg/kg (OECD 401)

**Acute toxicity - dermal** 



Acute toxicity - dermal LD<sub>50</sub> rat: >2000 mg/kg (OECD 402)

**Acute toxicity - inhalation** 

Acute toxicity - inhalation LC<sub>50</sub> rat (4 hours): > 1.09 mg/l, maximum feasible concentration, whole body (OECD

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. (OECD 404)

Serious eve damage/irritation

Serious eye damage/irritation Not irritating. (OECD 405)

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. (EEC B.6)

Germ cell mutagenicity

Genotoxicity - in vitro Negative Genotoxicity - in vivo Negative

Carcinogenicity

Carcinogenicity (rats, mice): No carcinogenic effect. (OECD 451, 453)

Reproductive toxicity

Reproductive toxicity - fertility Multigeneration study, Rat: Negative. (OECD 416)

Reproductive toxicity -

development

Teratogenicity: Negative. (OECD 414)

Acute neurotoxicity

NOAEL = 2000 mg/kg, Oral, Rat (OECD 424)

Acute phototoxicity Negative. (in vitro) (OECD 432)

90d neurotoxicity NOAEL = 858 mg/kg bw/day, Oral, Rat (OECD 424)

**General information** Based on the available data, no classification criteria are met for any of these hazard

classes.

Route of exposure This product is for agricultural use; therefore, the most probable routes of exposure

are via skin or inhalation.

#### 12.0 **ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** No experimental ecological data are available on the preparation as such. Name Etoxazole, 110 g/l suspension concentrate (Code ID: TN02) (Close formulation)

**Acute aquatic toxicity** 

Acute toxicity - aquatic invertebrates EC<sub>50</sub> 48 hours: 0.019 mg/l Daphnia magna (OECD 202)

Acute toxicity - terrestrial LD<sub>50</sub>, 48 hours, oral: >100 μg/bee *Apis mellifera* (Honeybee)

LD<sub>50</sub>, 48 hours, contact: >100 μg/bee *Apis mellifera* (Honeybee). (EPPO 170)

**Ecological information on ingredients** 

Name Active substance; Etoxazole, technical grade

**Acute aquatic toxicity** 

 $0.001 < LE(C)_{50} \le 0.01$ LE(C)<sub>50</sub>

M factor (Acute)

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 2.8 mg/l, Onchorhynchus mykiss (Rainbow trout) (OECD 203)

LC<sub>50</sub>, 96 hours: 1.4 mg/l, *Lepomis macrochirus* (Bluegill) (OECD 203)

EC<sub>50</sub>, 48 hours: 0.0071 mg/l, Daphnia magna (OECD 202) Acute toxicity - aquatic

invertebrates LC<sub>50</sub>, 10 days: >56 mg/kg, Chironomus riparius (Sediment dwelling midge) (ASTM

Guideline E 1706-95b)

Acute toxicity - algae ECb<sub>50</sub>, ECr<sub>50</sub>, 72 hours: >10 mg/l, Selenastrum capricornutum

NOEC, 72 hours: >10 mg/l, Selenastrum capricornutum (OECD 201)



Acute toxicity - microorganisms EC<sub>50</sub>, 3 hours: >1000 mg/l, Activated sludge (OECD 209)

Acute toxicity - terrestrial LD<sub>50</sub>, single dose oral: >2000 mg/kg, Anas platyrhynchos (Mallard duck) (FIFRA 71-1)

LD<sub>50</sub>, 48 hours, oral: >200 μg/bee *Apis mellifera* (Honeybee)

LD<sub>50</sub>, 48 hours, contact: >200 μg/bee Apis mellifera (Honeybee) (FIFRA 141-1, EPPO

LC<sub>50</sub>, 14 days, oral: >1000 mg/kg soil, Eisenia fetida (Earthworm) (OECD 207) No significant impact on carbon mineralization or nitrogen transformation at up to 0.35 mg as/kg dw soil, Soil micoroorganisms (SETAC - procedures for assessing the

environmental fate and ecotoxicity of pesticides)

**Chronic aquatic toxicity** 

**NOEC**  $0.0001 < NOEC \le 0.001$ Degradability Non-rapidly degradable

M factor (Chronic) 100

Chronic toxicity - aquatic NOEC, 21 days: 0.0002 mg/l, Daphnia magna (OECD 202)

invertebrates NOEC, 21 days: 0.00013 mg/l, Daphnia magna (OPPTS Draft Guideline 850.1300)

# 12.2. Persistence and degradability **Ecological information on ingredients**

Name Active substance; Etoxazole, technical grade

Stability (hydrolysis) pH 5: DT<sub>50</sub>: 9.6 days @ 20°C

pH 7: DT<sub>50</sub>: 147-161 days @ 20°C

pH 9: DT<sub>50</sub>: 165-217 days @ 20°C (OECD 111)

**Biodegradation** Not readily biodegradable (OECD 301D) (closed bottle test)

# 12.3. Bioaccumulative potential

Name Etoxazole, 110 g/l suspension concentrate (Code ID: PHIL 98/03) Partition coefficient Not applicable. (Etoxazole : log Pow: 5.5 @ 20°C (EEC A.8))

#### **Ecological information on ingredients**

Name Active substance; Etoxazole, technical grade

BCF: exposure 30 days 2500-3300, Onchorhynchus mykiss (Rainbow trout) Bioaccumulative potential

CT50, depuration time: 3-6 days, whole fish, Onchorhynchus mykiss (Rainbow trout)

(OECD 305E)

Partition coefficient log Pow: 5.5 @ 20°C (EEC A.8)

#### 12.4. Mobility in soil

Name Etoxazole, 110 g/l suspension concentrate (Code ID: PHIL 98/03)

Surface tension 42 mN/m @ 20°C (Concentration: 0.166 ml/l) (EEC A.5)

#### **Ecological information on ingredients**

Name Active substance; Etoxazole, technical grade

Mobility Low mobility

Adsorption/desorption coefficient Soil - Adsorption, Koc: 4910 - 11000 ml/g @ 20°C

Soil - Desorption, Koc: 11850 - 40750 ml/g @ 20°C (OECD 106)

Surface tension Not applicable

#### 12.5. Results of PBT and vPvB assessment

#### **Ecological information on ingredients**

Active substance; Etoxazole, technical grade Results of PBT and vPvB

assessment

Not required (no chemical safety report required).

#### 12.6. Other adverse effects

# **Ecological information on ingredients**



Name Active substance; Etoxazole, technical grade

Other adverse effects No other known adverse effects on the environment.

### 13.0 DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Disposal methods** According to local regulations. For further advice, contact manufacturer.

#### 14.0 TRANSPORT INFORMATION

#### 14.1. UN Number

 UN No. (ADR/RID)
 3082

 UN No. (IMDG)
 3082

 UN No. (ICAO)
 3082

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)

Proper shipping name (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (etoxazole)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (etoxazole)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (etoxazole)

# 14.3. Transport hazard class(es)

ADR/RID class 9
ADR/RID label 9
IMDG class 9
ICAO class/division 9

# 14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



# 14.6. Special precautions for user

No other special precaution required.

**EmS** F-A, S-F

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the ICB Code

Transport in bulk according to Annex II of MARPOL 73/78

Not applicable

and the ICB Code

### 15.0 REGULATORY INFORMATION

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

**EU legislation** There is no specific regulation/legislation for this mixture.

### 15.2. Chemical safety assessment

No chemical safety assessment is required for this mixture.



# 16.0 OTHER INFORMATION

The information contained herein relates only to the specified material identified. AGROMEC 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. AGROMEC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.