

1.1. Product identifier	BORNEO	
	Etoxazole, 110 g/l suspension concentrate	
	GIFAP Code : SC	
	EC number: not applicable	
1.2. Relevant identified uses of the sub	ostance or mixture and uses advised against	
	Acaricide (agricultural use)	
	Not for public use	
1.3. Details of the supplier of the safety	v data sheet	
· · · · · · · · · · · · · · · · · · ·	INTERFARM (UK) LIMITED	
	36 Newgate Street	
	Doddington	
	Cambridgeshire PE15 0SR	
	United Kingdom	
	Tel.: +44 (0)1354 741414	
	email: technical@interfarm.co.uk	
1.4. Emergency Telephone number 24/24hrs		
	UK & Ireland; +44 (0)844 560 5135	
2. HAZARDS IDENTIFICATION		
2.1. Classification of the substance or	mixture	
Classified as hazardous according to regulation (EC) No 1272/2008 (CLP)		

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Signal word(s)

Pictogram (s)



Warning

**Aquatic Acute Cat 1** Aquatic Chronic Cat 1

Hazard statement(s)

H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long lasting effects

#### Classified as hazardous according to:

- EU directive 67/548/EEC modified by Directive 2001/59/EC (results of the experimental studies),
- Directives 1999/45/EC, 2001/60/EC, 2006/8/EC (classification based on the concentration of active substance and . ingredients),
- Directive 2003/82/EC for pesticides (special risks and safety precautions).



Symbol(s) R(isk) phrase(s) DANGEROUS FOR THE ENVIRONMENT (N) R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

2.2. Label elements

Signal word(s)

Warning

#### SAFETY DATA SHEET According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010 BORNEO



Pictogram (s)



Hazard statement(s)	H410: Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	<ul> <li>P273: Avoid release to the environment</li> <li>P501 (UK): Dispose of contents/container to a licensed hazardous-waste contractor or collection site except for empty clean containers, which can be disposed of as non-hazardous waste.</li> <li>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.</li> <li>EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.</li> </ul>
Special risks and safety precautio	ns (directive 91/414/EEC):
General provisions	SP 1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water).
Specific safety precautions	none
2.3. Other hazards	none known
3. COMPOSITION/INFORMATIO	ON ON INGREDIENTS
3.2. This product is to be consider	red as a mixture in conformance to EC directives.

#### Composition/Information on hazardous ingredients Number CAS number **Chemical name** % w/v 1 11 153233-91-1 (RS)-5-tert-butyl-2-[2-(2,6-difluorophenyl)-4,5-dihydro-1,3-oxazol-4-yl] phenetole Annex-1 listing Regl 1272/2008 Pict. Hazard statements EC number Symbol 2001/59/EC Number R phrase(s) 1 yes GHS09 H400, H410 Ν R50/53 1 Other information SCAE code : PHIL 98/03

#### 4. FIRST AID MEASURES

4.1. Description of first aid measures	
General	In all cases of doubt, seek medical attention.
Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
Skin	Remove contaminated clothing. Wash immediately with soap and water.
Еуе	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion	Rinse mouth. Never induce vomiting in unconscious or confused persons. Seek medical advice.

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

Mildly irritating to eyes.

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

No specific recommendations.

### **5. FIRE-FIGHTING MEASURES**

# 5.1. Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Dry chemical powder, carbon dioxide, sand, water. none known

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

No hazardous combustion products known.



5.3. Advice for fire-fighters	Wear self contained breathing apparatus. Wear suitable protective clothing and eye/face protection.
Other information	Water used to extinguish a fire should not be allowed to enter the drainage system or

watercourses.

6. ACCIDENTAL RELEASE MEASURES	

6. ACCIDENTAL RELEASE MEAS							
6.1. Personal precautions, protective	equipment, and emergency procedures						
For non-emergency personnel	Avoid contact with eyes. Wear protective gloves, safety goggles or face shield, and suitable protective clothin Remove ignition sources. Evacuate the danger area.						
For emergency responders	Avoid contact with eyes. 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	Do not allow escape into sewage system or watercourses. Do not wash residues into drains or other waterways.						
6.3. Methods and material for contain	ment and cleaning up						
Containment of a spill	Do not allow escape into sewage system or watercourses.						
Clean-up procedures	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	For personal protection see section 8.						
7. HANDLING AND STORAGE							
7.1. Precautions for safe handling	The usual precautions for handling chemicals should be observed. For personal protection see section 8.						
Fire and explosion prevention	No specific recommendations.						
7.2. Conditions for safe storage, inclu	ding any incompatibilities						
Storage requirements	Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Do not drink, eat and smoke in work areas.						
Other information	Do not mix with water (except for the normal preparation).						
7.3. Specific end use(s)	See label on the container.						

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters	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 Individual protection measures	Provide adequate ventilation.			
Respiratory	The usual precautions for handling chemicals should be observed.			
Hand	Wear protective nitrile gloves			
Eye	Wear safety goggles or face shield.			
Skin and body	Wear suitable protective clothing.			
Other information	Launder clothes before reuse.			



#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Name

#### Etoxazole, 110 g/l suspension concentrate

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

Appearance Colour Odour Odour threshold pH value Melting point/freezing point Initial boiling point & boiling range Flash point Evaporation rate Flammability	opaque liquid (visual inspection) white (visual inspection) faint chemical (Olfactory assessment) not determined 7.7 (1% in water, 24°C) (CIPAC MT 75.2 handbook F) -4.3°C (freezing point) not determined >70°C (Abel-Pensky) not applicable not flammable
Upper/lower flammability or explosive	limits
Vapour pressure Vapour density Relative density Bulk density Solubility in water	not determined not determined not applicable 1.03 g/ml (20°C) (CIPAC MT 3.3.2 (density bottle) handbook F) not applicable dispersible in water (solubility of etoxazole = 0.0704 mg/l, 20°C) (EEC A.6 Column
Solubility in other solvents Partition coefficient n-octanol/water Autoignition temperature Decomposition temperature Dynamic viscosity Kinematic viscosity Explosive properties Oxidising properties	elution method) not applicable not applicable (etoxazole: log Pow = 5.5, 20°C) no self ignition up to 600°C (EEC A.15) the active substance does not decompose up to 450°C (EEC A16) 31-452 mPa.s (shear rate 504 to 10.58 s <sup>-1</sup> ; 20°C) (OECD 114) not determined not explosive (EEC A.14) not oxidising (EEC A.17)
9.2. Other information Relative vapour density (air = 1) Surface tension	not determined 42 mN/m (0.166 ml/l ; 20°C) (EEC A.15)

10. STABILITY AND REACTIVITY	
10.1. Reactivity	Stable under recommended storage and handling conditions (see also section 7).
10.2. Chemical stability	Stable for a minimum of 2 years under recommended storage and handling conditions (see section 7).
10.3. Possibility of hazardous reaction	ns None known.
10.4. Conditions to avoid 10.5. Incompatible materials	Avoid high temperature, light, humidity. None known.

10.6. Hazardous decomposition products

No hazardous combustion products known in contact with fire (see also section 5).

11. TOXICOLOGICAL INFORMATION	
11.1. Information on toxicological effects	

No experimental toxicological data are available on the preparation as such. The following data are applicable to a very close formulation:

Name

Etoxazole, 110 g/l suspension concentrate (close composition)

 Acute toxicity
 LD50 rat: >5000 mg/kg (EEC B.1)

 Dermal
 LD50 rat: >2000 mg/kg (EEC B.3)

#### SAFETY DATA SHEET According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010 BORNEO



Inhalation	LC50 rat (4 hours): >1.09 mg/l (maximum feasible concentration ; whole body) (OECD 403)			
Irritation				
Skin	not irritating (EEC B.4)			
Eye	mildly irritating (EEC B.5)			
Sensitization	not sensitizing (Maximisation test) (EEC B.6)			
The following data are applicable to ingredient(s) listed below :				
Name	Active substance Etoxazole, technical grade			
Other toxicological information	- Genotoxicity: negative (OECD 471/472, 476, 473, UKEMS Test Guideline, 1993,			

EEC B12) - Carcinogenicity (rats\_mice); n

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

- Multigeneration reproduction study (rat): negative (OECD 416)

- Teratogenicity studies: negative (OECD 414)

Based on the available data, no classification criteria are met for any of these hazard classes.

#### Information on likely routes of exposure

This product is for agricultural use, therefore the most probable routes of exposure are via skin or inhalation.

12. ECOLOGICAL	INFORMATION			
12.1. Toxicity				

No experimental ecotoxicological data are available on the preparation as such. The following data are applicable to a very close formulation:

Name	Etoxazole, 110 g/l suspension concentrate (close composition)			
Daphnia	Acute toxicity, 48h <i>(Daphnia magna)</i> : EC50 = 0.019 mg/l NOEC < 0.002 mg/l (OECD 202)			
Bees	Acute contact toxicity, LD50 ( <i>Apis mellifera</i> ) : >100 µg a.s./bee			
	Acute oral toxicity, LD50 ( <i>Apis mellifera</i> ) : >100 µg a.s./bee (EPPO 170)			
The following data are applicable to the ir	ngredient(s) listed below:			
Name	Active substance Etoxazole, technical grade			
Fish	Acute toxicity, 96h (Oncorhynchus mykiss):			
	LC50 = 2.8 mg/l			
	NOEC = 0.22 mg/l (semi-static test) (OECD 203)			
	Acute toxicity, 96h (Lepomis macrochirus) :			
	LC50 = 1.4  mg/l			
<b>B</b> 1 ·	NOEC = 0.73 mg/l (semi-static test) (OECD 203)			
Daphnia	Acute toxicity, 48h (Daphnia magna) :			
	EC50 = 0.0071 mg/l NOEC = 0.0029 mg/l (OECD 202)			
	Chronic toxicity, 21d-NOEC (Daphnia magna) : 0.0002 mg/l (OECD 202)			
Sediment dwelling midge	Acute toxicity, 10d-sediment ( <i>Chironomus riparius</i> ) :			
Seament awening mage	LC50 > 56 mg/kg sediment			
	NOEC = 25 mg/kg sediment (ASTM Guideline E 1706-95b)			
Algae	Acute toxicity, 72h (Selenastrum capricornutum) :			
	$EC_{b}50 \& EC_{r}50 > 10 mg/l$			
	NOEC = 10 mg/l (OECD 201)			
Birds	Acute toxicity, LD50 (Mallard duck) : >2000 mg/kg (Draft OECD » FIFRA § 71-1)			
Bees	Acute contact toxicity, 48h-LD50 (Apis mellifera) : >200 µg/bee (FIFRA §141-1 » EPPO			
	170)			
	Acute oral toxicity, 4 8h-LD50 (Apis mellifera) : >200 µg/bee (FIFRA § 141-1 » EPPO			
	170)			
Earthworms	Acute oral toxicity, 14d-LC50 ( <i>Eisenia foetida</i> ) : >1000 mg/kg soil (OECD 207)			
Soil micro organisms	No significant impact on carbon mineralization or nitrogen transformation at up to 0.35			
	mg a.s./kg dry soil (SETAC - Procedures for assessing the environmental fate and			
	ecotoxicity of pesticides).			



12.2. Persistence and degradability						
<b>12.2. Persistence and degradability</b> The following data are applicable to ingredient(s) listed below :						
Name	Active substance Etoxazole, technical grade					
Degradation Biotic	Not readily biodegradable (OECD 301D - Closed bottle test)					
Degradation Abiotic	Hydrolysis (OECD 111)					
	pH5: DT50 = 9.6 days at 20°C pH7: DT50 = 147 - 161 days at 20°C					
	$pH_7$ : DT50 = 147 - 161 days at 20 C pH9: DT50 = 165 - 217 days at 20°C					
		-				
12.3. Bioaccumulative potential						
The following data are applicable to ingr						
Name Bioaccumulation	Active substance Etoxazole, technica					
Dioaccumulation	Partition coefficient n-octanol/water log Pow : 5.5 (20°C) (EEC A.8) Bio Concentration Factor (BCF), exposure 30 days ( <i>Oncorhynchus mykiss</i> ): 2500 –					
	3300 (depuration time: CT50 = 3-6 days - whole fish) (OECD 305E)					
<b>12.4. Mobility in soil</b> The following data are applicable to ingredient(s) listed below :						
Name	Active substance Etoxazole, technical grade					
	Adsorption $K_{oc}$ values : 4910 - 11000 ml/g ;					
	Desorption K <sub>ocdes</sub> values: 11850 to 40750 ml/g					
	Therefore the substance is slightly mobile to immobile (OECD 106).					
12.5. Results of PBT and vPvB assess	sment					
	not required (no chemical safety report required).					
12.6 Other advarage offects						
12.6. Other adverse effects	no other known adverse effects on the environment.					
13. DISPOSAL CONSIDERATIONS						
13.1. Waste treatment methods						
Substance and/or Mixture	According to local regulations. For further advice contact manufacturer					
Contaminated packaging	According to local regulations. For further advice contact manufacturer. According to local regulations.					
14. TRANSPORT INFORMATION						
Land transport ADR/RID, Sea transpo	rt IMO/IMDG, Air transport ICAO-TI/IAT/	A-DGR:				
14.1. UN Number	3082					
14.2 LIN proper chipping name						
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains: etoxazole)					
14.3. Transport hazard class(es)						
	Land transport ADR/RID class:	9	label:	9		
	IMO/IMDG code class: Air transport ICAO-TI/IATA-DGR class:	9				
	All transport ICAO-TI/IATA-DOR class.	9				
14.4. Packing group	III					
14.5. Environmental hazards	Marina pollutant:	200				
14.5. Environmental llazarus	Marine pollutant:	yes				
14.6. Special precautions for user	EMS:	F-A, S-F				
	No other special precaution required.					
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the ICB Code						
Not applicable						

Not applicable

#### **15. REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** There is no specific regulation/legislation for this mixture.

#### 15.2. Chemical safety assessment

No chemical safety assessment is required for this mixture.



### **16. OTHER INFORMATION**

# Method for evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 used for the purpose of classification:

Classification based on tests, on close formulation, and the properties of the active substance.

**Changes made to the previous version:** Sections 2, 3 & 16 were modified to introduce CLP hazard information and to declare hazardous ingredients according to CLP. Sections 11, 12 & 16, were modified to include/justify the CLP classification of the mixture. Other sections were updated to meet the requirements of Regulation 453/2010. [Based on S128311SCphCLP/EU/400gb from SCAE]

#### Full text of risk phrase(s) used in this document:

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Full text of hazard statement(s) used in this document:

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.