

## SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)  
and Commission Regulation (EU) No 453/2010

# PROLECTUS



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

### 1.1. Product identifier

#### PROLECTUS

Fenpyrazamine, 500 g/kg water dispersible granules

GIFAP Code : WG

EC number: not applicable

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

Fungicide (agricultural use)

Not for public use

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

INTERFARM (UK) LIMITED

36 Newgate Street

Doddington

Cambridgeshire PE15 0SR

United Kingdom

Tel.: +44 (0)1354 741414

email: [technical@interfarm.co.uk](mailto: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)

Signal word(s)

Warning

Pictogram (s)



**Aquatic Chronic Cat 1**

Hazard statement(s)

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)

DANGEROUS FOR THE ENVIRONMENT (N)

R(isk) phrase(s)

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### 2.2. Label elements

Signal word(s)

Warning

Pictogram (s)



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<b>Hazard statement(s)</b>	H410: Very toxic to aquatic life with long lasting effects
<b>Precautionary statement(s)</b>	P273: Avoid release to the environment P391: Collect spillage 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. 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. EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.
<b>Special risks and safety precautions (directive 91/414/EEC):</b>	
<b>General provisions</b>	SP 1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water).
<b>Specific safety precautions</b>	None
<b>2.3. Other hazards</b>	None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. This product is to be considered as a mixture in conformance to EC directives.

### Composition/Information on hazardous ingredients

Number	% w/w	CAS number	Chemical name
1	50	473798-59-3	S-allyl 5-amino-2-isopropyl-4-(2-methylphenyl)-3-oxo-2,3-dihydro-1H-pyrazole-1-yl carbithioate
2	>1	mixture	Dispersing agent

Number	EC number	Annex-1 listing	Regl 1272/2008 Pict.	Hazard statements	Symbol 2001/59/EC	R phrase(s)
1	not assigned	yes	GHS09	H410	N	R51/53
2	(*)	/	ND	ND	Xi	R36, R52/53

**Other information** (\*) All components are registered in EINECS/ELINCS  
SCAE code: B10-1

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

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

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

Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.

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

Symptomatic treatment is advised.

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

<b>Suitable Extinguishing media</b>	Dry chemical powder, carbon dioxide, sand, foam
<b>Unsuitable extinguishing media</b>	None known.

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

May emit toxic and corrosive fumes under fire conditions; possible generation of carbon monoxide (CO) and sulphur oxides (SOx) and nitrogen oxides (NOx).

### 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.

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## 6. ACCIDENTAL RELEASE MEASURES

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

**For non-emergency personnel** Do not breathe dust. Wear protective gloves, safety goggles or face shield, and suitable protective clothing.  
Remove all ignition sources.  
Evacuate the danger area.

**For emergency responders** Do not breathe dust. Wear protective gloves (nitrile), safety goggles or face shield, and suitable protective clothing.  
Remove all 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 containment and cleaning up

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

**Clean-up procedures** Clean up spills immediately. 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** Avoid dust formation, since dust can form an explosive mixture with air. Isolate from potential sources of ignition, including electrostatic discharge.

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

**Storage requirements** Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from heat. 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** Provide adequate ventilation.

### Individual protection measures

**Respiratory** In case of dust formation, use dust mask.

**Hand** Wear protective gloves of nitrile

**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** *Fenpyrazamine, 500 g/kg water dispersible granules*

### 9.1 Information on basic physical and chemical properties

**Appearance** solid, small spherical granules (Visual assessment)

**Colour** brown (Visual assessment)

**Odour** chemical odour (Olfactory assessment)

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Odour threshold	not determined
pH value	7.28 (1% dispersion in water, 21-23°C) (CIPAC MT 75.3)
Melting point/freezing point	not determined
Initial boiling point & boiling range	not applicable
Flash point	not applicable
Evaporation rate	not applicable
Flammability	not "highly flammable" (EEC A.10)
Upper/lower flammability or explosive limits	not determined
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	not determined
Bulk density	0.6 g/ml (CIPAC MT 186)
Solubility in water	dispersible in water (solubility of fenpyrazamine = 20.4 mg/l; 20°C) (OECD 105)
Solubility in other solvents	not applicable
Partition coefficient n-octanol/water	not applicable (fenpyrazamine: log Pow = 3.52 ; 25°C ; OECD 107)
Autoignition temperature	no-self ignition up to 400°C (EEC A.16)
Decomposition temperature	the active substance decomposes at temperatures >240°C (expert judgment)
Dynamic viscosity	not applicable
Kinematic viscosity	not applicable
Explosive properties	not explosive (EEC A.14) – see Section 7.1
Oxidising properties	not oxidizing (EEC A.17)
<b>9.2. Other information</b>	
Relative vapour density (air = 1)	not applicable
Surface Tension	not applicable

## 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 reactions	None known
10.4. Conditions to avoid	Avoid high temperature, light, humidity
10.5. Incompatible materials	none known.
10.6. Hazardous decomposition products	May emit toxic and corrosive fumes under fire conditions ; possible generation of carbon monoxide (CO) and sulphur oxides (SOx) and nitrogen oxides (NOx) (in contact with open fire). (see also section 5)

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Name	<b>Fenpyrazamine, 500 g/kg water dispersible granules</b>
Acute toxicity	
Oral	LD50 rat: > 2000 mg/kg (OECD 423)
Dermal	LD50 rat: > 2000 mg/kg (OECD 402)
Inhalation	LC50 rat (4-hours): > 1.97 mg/l (nose-only ; maximum attainable concentration) (OECD 403)
Irritation	
Skin	not irritating (OECD 404)
Eye	not irritating (OECD 405)
Sensitization	not sensitizing (Buehler test) (OECD 406)

The following data are applicable to the ingredient(s) listed below :

Name	<b>Active substance Fenpyrazamine, technical grade</b>
Other toxicological information	- Genotoxicity: not genotoxic. (OECD 471, 473, 476, 474) - Carcinogenicity tests in rats and mice: no carcinogenic effect. (OECD 453, 451) - Multigeneration reproduction study in rats: negative (OECD 416) - Developmental toxicity in rat and rabbit: not teratogenic, not embryotoxic (OECD 414)

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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

<b>Name</b>	<b>Fenpyrazamine, 500 g/kg water dispersible granules</b>
<b>Fish</b>	Acute toxicity, 96h ( <i>Oncorhynchus mykiss</i> ): LC50 = 18 mg/l (7.3 mg a.s./l) NOEC = 2.5 mg/l (1 mg a.s./l) (OECD 203)
<b>Daphnia</b>	Acute toxicity, 48h ( <i>Daphnia magna</i> ): EC50 = 5.7 mg/l (2.6 mg a.s./l) NOEC = 2.4 mg/l (1.2 mg a.s./l) (OECD 202)
<b>Algae</b>	Acute toxicity, EC50 ( <i>Pseudokirchneriella subcapitata</i> ) (OECD 201): 72h-ECb50: 0.56 mg/l (0.28 mg a.s./l) 72h-ECr50: 1.3 mg/l (0.67 mg a.s./l) 72h-NOECb&y: 0.037 mg/l (0.018 mg a.s./l) 72 h NOECr: 0.58 mg/l (0.29 mg a.s./l)
<b>Bees</b>	Acute oral toxicity, 48h-LD50 ( <i>Apis mellifera</i> ): 59.7 µg a.s./bee (OECD 213) Acute contact toxicity, 48h-LD50 ( <i>Apis mellifera</i> ): > 100 µg a.s./bee (OECD 214)

The following data are applicable to the ingredient(s) listed below :

<b>Name</b>	<b>Active substance Fenpyrazamine technical grade</b>
<b>Sediment dwelling midge</b>	Chronic toxicity, 28d-NOEC devpt rate ( <i>Chironomus riparius</i> ) : 0.560 mg a.s./l (OECD 219)
<b>Mysids</b>	Chronic toxicity, life-cycle ( <i>Americamysis bahia</i> ): NOEC = 0.024 mg/l
<b>Birds</b>	Acute toxicity, LD50, Northern Bobwhite quail ( <i>Colinus virginianus</i> ) : > 2000 mg/kg bw (OPPTS 850.2100)  Dietary toxicity (5 days), LC50: (OPPTS Guideline 850.2200) Northern Bobwhite quail ( <i>Colinus virginianus</i> ) : > 954 mg/kg bw/day Mallard duck ( <i>Anas platyrhynchos</i> ): > 967 mg/kg bw/day
<b>Earthworm</b>	Acute toxicity, 14d-LC50 ( <i>Eisenia foetida</i> ): > 800 mg/kg soil. (OECD 207)
<b>Soil microorganisms</b>	No significant impact on carbon mineralization or nitrogen transformation at up to 4.0 mg a.s./kg dry soil [OECD 216, 217 (2000)]

### 12.2. Persistence and degradability

The following data are applicable to the ingredient(s) listed below :

<b>Name</b>	<b>Active substance Fenpyrazamine technical grade</b>
<b>Degradation Biotic</b>	Not readily biodegradable (OECD No. 301 B).
<b>Degradation Abiotic</b>	Photodegradation: DT50 < 2 days (EPA Sub-division N, Section 161-2) Hydrolysis (EEC Method C7): pH4: stable (25°C) pH7: 20-25°C DT50 > 1 year pH9: 20°C DT50 = 24 days ; 25°C DT50 = 11 days.
<b>Biological methods for sewage treatment</b>	EC50 activated sludge: > 1000 mg/l (OECD 209)

### 12.3. Bioaccumulative potential

The following data are applicable to the ingredient(s) listed below :

<b>Name</b>	<b>Active substance Fenpyrazamine technical grade</b>
<b>Bioaccumulation</b>	Partition coefficient n-octanol/water log Pow : 3.52 (25°C) (OECD 305) Bio Concentration Factor (BCF), exposure 28 days Bluegill Sunfish ( <i>Lepomis macrochirus</i> ) : 283 – 289 (depuration time: CT50 <1 day - whole fish) (OECD 305)

### 12.4. Mobility in soil

The following data are applicable to the ingredient(s) listed below :

<b>Name</b>	<b>Active substance Fenpyrazamine technical grade</b>
	Adsorption $K_{Foc}$ values : 112-731 ml/g (mean 310 ml/g, mean 1/n = 0.91) Desorption $K_{Foc-des}$ values: 133-954 ml/g (mean 384 ml/g, mean 1/n= 0.911) Therefore the substance is slightly to moderately mobile. (OECD 106, January 2000).

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### 12.5. Results of PBT and vPvB assessment

Not required (no chemical safety report required).

### 12.6. Other adverse effects

No other known adverse effects on the environment.

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## 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.

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## 14. TRANSPORT INFORMATION

Land transport ADR/RID, Sea transport IMO/IMDG, Air transport ICAO-TI/IATA-DGR:

- 14.1. UN Number** 3077
- 14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains: 50% fenpyrazamine)
- 14.3. Transport hazard class(es)**
- |                                       |   |        |   |
|---------------------------------------|---|--------|---|
| Land transport ADR/RID class:         | 9 | label: | 9 |
| IMO/IMDG code class:                  | 9 |        |   |
| Air transport ICAO-TI/IATA-DGR class: | 9 |        |   |
- 14.4. Packing group** III
- 14.5. Environmental hazards** 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

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## 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.

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## 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 and on the properties of the active substance.

**Changes made to the previous version:** No previous version. [Based on S218850WGCLP/EU/310gb from SCAE]

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

R36: Irritating to eyes

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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.