



SAFETY DATA SHEET

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

FENPYRAZAMINE 50 WG

Ref. S218850WG/bEU/210gb

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

1.1. Product identifier
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
SUMITOMO CHEMICAL AGRO EUROPE S.A.S.
Parc d'Affaires de Crécy
2, rue Claude Chappe
69370 Saint-Didier-au-Mont-d'Or
France
Tel. : +33 478 64 32 60
email: sds@sumitomo-chem.fr



1.4. Emergency Telephone number 24/24hrs
Europe +44 (0) 1235 239 670
Middle East & Africa +44 (0) 1235 239 671

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

2.2. Label elements



Symbol(s)
R(isk) phrase(s)
S(afety) phrase(s)
DANGEROUS FOR THE ENVIRONMENT (N)
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S57: Use appropriate container to avoid environmental contamination

Special risks and safety precautions (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
SPe 3: To protect aquatic organisms respect an unsprayed buffer zone of (as indicated on the label) to surface water bodies.

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2.3. Other hazards 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- =carbothioate
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	no	GHS09	H411	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**

General	In 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.
Eye	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

No typical symptoms and effects known.

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

Symptomatic treatment is advised.

5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media**

Suitable Extinguishing media	Dry chemical powder, carbon dioxide, sand, foam.
Unsuitable extinguishing media	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 water courses.

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

6.2. Environmental precautions

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

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

May form explosive dust cloud.

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

Date of revision:

13 March 2012

(Date of previous revision: 17 October 2011 ; version 2.00)

Version number

2.10

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

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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)
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)
Oxidising properties	not oxidizing (EEC A.17)
9.2. Other information	
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).

11. TOXICOLOGICAL INFORMATION**Name** *Fenpyrazamine, 500 g/kg water dispersible granules***11.1. Information on toxicological effects**



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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	Active substance Fenpyrazamine, technical grade
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: negative (OECD 416) - Developmental toxicity in rat and rabbit: not teratogenic, not embryotoxic. (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

Name	Fenpyrazamine, 500 g/kg water dispersible granules
Fish	Acute toxicity, 96h-LC50 (<i>Oncorhynchus mykiss</i>): 14.6 mg/l (7.3 mg a.s./l) (OECD 203)
Daphnia	Acute toxicity, 48h-EC50 (<i>Daphnia magna</i>): 5.2 mg/l (2.6 mg a.s./l)
Algae	Acute toxicity, EC50 (<i>Pseudokirchneriella subcapitata</i>): 72h-ECb50: 0.56 mg/l (0.28 mg a.s./l) (OECD 201) 72h-ErC50: 1.3 mg/l (0.67 mg a.s./l) (OECD 201)
Bees	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 :

Name	Active substance Fenpyrazamine technical grade
Daphnia	Acute toxicity, 48h-EC50 (<i>Daphnia magna</i>): 5.5 mg/l (OECD 202) Chronic toxicity, 21d-NOEC (<i>Daphnia magna</i>): 0.34 mg a.s./l (OECD 211)
Sediment dwelling midge	Chronic toxicity, 28d-NOEC (<i>Chironomus riparius</i>): 0.560 mg a.s./l (OECD 219)
Birds	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
Earthworm	Acute toxicity, 14d-LC50 (<i>Eisenia foetida</i>): > 800 mg/kg soil. (OECD 207)
Soil microorganisms	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 :

Name	Active substance Fenpyrazamine technical grade
Degradation Biotic	Not readily biodegradable (OECD No. 301 B).
Degradation Abiotic	Photodegradation: DT50 < 2 days (EPA Sub-division N, Section 161-2)

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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.

Biological methods for sewage treatment

EC50 activated sludge: > 1000 mg/l (OECD 209)

12.3. Bioaccumulative potential

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

Name**Active substance Fenpyrazamine technical grade****Bioaccumulation**

Partition coefficient n-octanol/water log Pow : 3.52 (25°C) (OECD 305)

Bio Concentration Factor (BCF), exposure 28 days Bluegill Sunfish (*Lepomis macrochirus*) : 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 :

Name**Active substance Fenpyrazamine technical grade**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).

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.

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.

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 userEMS: 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.

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: section 9 was modified to correct a typo in the class of the label.

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:

H411: 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.