



SAFETY DATA SHEET

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

FENPYRAZAMINE 50 WG

Ref. S218850WGCLP/EU/320gb

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 regulation (EC) No 1272/2008 (CLP)

Signal word(s) Warning



Aquatic Chronic Cat 1

Hazard statement(s) H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Signal word(s) Warning



Aquatic Chronic Cat 1

Hazard statement(s) H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P391: Collect spillage.
P501: Dispose of contents/container in accordance with local regulation.

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EUH 401: 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**

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.

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 EU regulations.**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	1-5	10237-70-4	maleic acid, potassium salt

Number	EC number	Annex-1 listing	Regl 1272/2008 Pict.	Hazard statements
1	not assigned	yes	GHS09	H400, H410
2	/	/	GHS07	H319, H315, H335

Other information

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 skin immediately with 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

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**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.

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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.
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 food, drink and animal feeding stuffs. 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.

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Skin and body Wear suitable protective clothing.
Other information Launder clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Name	<i>Fenpyrazamine, 500 g/kg water dispersible granules</i>
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). (see also section 5)

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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Name	<i>Fenpyrazamine, 500 g/kg water dispersible granules</i>
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	<i>Active substance Fenpyrazamine, technical grade</i>
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)

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	<i>Fenpyrazamine, 500 g/kg water dispersible granules</i>
Fish	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)
Daphnia	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)
Algae	Acute toxicity, EC50 (<i>Pseudokirchneriella subcapitata</i>) (OECD 201): 72h-EC50: 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)
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	<i>Active substance Fenpyrazamine technical grade</i>
Sediment dwelling midge	Chronic toxicity, 28d-NOEC devpt rate (<i>Chironomus riparius</i>): 0.560 mg/l (OECD 219)
Mysids	Chronic toxicity, life-cycle (<i>Americamysis bahia</i>): NOEC = 0.024 mg/l
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

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Earthworm Acute toxicity, 14d-LC50 (*Eisenia foetida*): > 800 mg/kg soil. (OECD 207)
Soil microorganisms No significant impact on carbon mineralization or nitrogen transformation at up to 4.0 mg/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)
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: 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

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14.5. Environmental hazards	Marine pollutant:	yes
14.6. Special precautions for user	EMS: no other special precaution required.	F-A, S-F
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the ICB Code	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 and on the properties of the active substance.

Changes made to the previous version: sections nos 2, 3, 12 were modified to remove any reference to directives 2001/59/EC or 1999/45/EC, and update the CLP classification of the ingredients.

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

- H315: Causes skin irritation.
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation.
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects.

This information only concerns the above mentioned product for the specific use mentioned and is not valid for such product used in combination with any other product. The information is to our best knowledge correct and complete and is given in good faith as of the date indicated. It is the user's responsibility to use this information as appropriate for his own particular use of this product.