

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



PROLECTUS 50 WG

Version 1.0

Revision Date 11.07.2017

Print Date 11.07.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : PROLECTUS 50 WG

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

Use of the Substance/Mixture : Fungicide
Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Nufarm S.A.S
28 boulevard Zéphirin Camélinat
92230 Gennevilliers
Telephone : +330140855050
Telefax : +330147922545
E-mail address : FDS@fr.nufarm.com
Responsible/issuing person

1.4 Emergency telephone number

Nufarm S.A.S. : +33 1 40 85 51 15
National emergency telephone number : not available

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Disposal:
P501 Dispose of contents / container in accordance with local / national regulations.

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Additional Labelling:

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

SPe 3 To protect aquatic organisms/non-target plants/non-target arthropods/insects respect an unsprayed buffer zone of (distance to be specified) to non-agricultural land/surface water bodies.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

A Chemical Safety Assessment is not required for this mixture.

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

: This substance is not considered to be very persistent and very bioaccumulating (vPvB).

: A Chemical Safety Assessment is not required for this substance.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Water dispersible granules (WG)

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate	473798-59-3	Aquatic Chronic 2; H411	50 W/W

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Move to fresh air.

In case of skin contact : Take off all contaminated clothing immediately. Wash immediately affected parts with plenty of water and soap.

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- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, Sand, Foam, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion.
- Hazardous combustion products : Decomposition at temperatures above 200 ° C may form SO_x. In the event of fire, may form, but not limited to, Nitrogen oxide, carbon monoxide and carbon dioxide

5.3 Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Refer to protective measures listed in sections 7 and 8.

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Never return spills in original containers for re-use.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children. Store in original container. To keep away from moisture. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

If the sub-section is blank, no value is applicable.

8.2 Exposure controls

Personal protective equipment

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- Eye protection : Safety glasses
- Hand protection
- Material : Nitrile gloves
- Skin and body protection : Long sleeved clothing
- Respiratory protection : Effective dust mask

Environmental exposure controls

- General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : solid
- Colour : brown
- Odour : No data available
- Odour Threshold : not determined
- pH : 7,28, Concentration: 10,00 g/l
at 21 - 23 °C
Method: CIPAC MT75.3
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : Not classified as a flammability hazard
Method: Regulation (EC) No. 440/2008, Annex, A.10
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Vapour pressure : No data available
- Relative vapour density : Not applicable
- Relative density : No data available
- Bulk density : 0,6 kg/m³

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Water solubility	: dispersible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: > 400 °C Method: Regulation (EC) No. 440/2008, Annex, A.16
Ignition temperature	: No data available
Thermal decomposition	: Hazardous decomposition products formed under fire conditions.
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable at room temperature for at least 2 years

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture
Excessive heat.
Exposure to light.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.
In case of fire hazardous decomposition products may be

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produced such as:
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
Sulphur oxides

Other information : No decomposition if stored and applied as directed.

In case of fire hazardous decomposition products may be produced such as:
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
Sulphur oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 Rat: > 1,97 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
Target Organs: ZNUF-N11.00522876
maximum concentration technically achievable

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation : Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Result: Did not cause sensitization.
Method: Buehler Test

STOT - single exposure : No data available

STOT - repeated exposure : No data available

Components:

S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate :
Carcinogenicity : Species: Rat

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	Not carcinogenic
	Species: Mouse
	Not carcinogenic
Reproductive toxicity	: Species: no effect on reproduction No embryotoxic effects have been observed in animal tests.
Further information	: Mutagenicity: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 14,6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 5,2 mg/l Exposure time: 48 h
Toxicity to algae	: EbC50 (Pseudokirchneriella subcapitata (green algae)): 0,56 mg/l Exposure time: 72 h ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,3 mg/l Exposure time: 72 h
Toxicity to terrestrial organisms	: LD50: 57,7 µg/bee, oral Exposure duration: 48 d Species: Apis mellifera (bees) Method: OECD Test Guideline 213 LD50: > 100 µg/bee, contact Exposure duration: 48 d Species: Apis mellifera (bees) Method: OECD Test Guideline 213/214

Components:

S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate :	
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 5,5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,34 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
- NOEC: 0,56 mg/l
Exposure time: 28 d
Species: Chironomus riparius (harlequin fly)
- Toxicity to terrestrial organisms : LD50: > 2.000 mg/kg
Species: Colinus virginianus (Bobwhite quail)
Method: OPPTS 850.2100
- LC50 diet: > 954 mg/kg
Exposure duration: 5 d
Species: Colinus virginianus (Bobwhite quail)
Method: OPPTS 850.2200
- LC50 diet: > 967 mg/kg
Exposure duration: 5 d
Species: Anas platyrhynchos (Mallard duck)
Method: OPPTS 850.2200
- LC50: > 800 mg/kg
Exposure duration: 14 d
Species: Eisenia fetida (earthworms)

12.2 Persistence and degradability

Product:

Biodegradability : Not readily biodegradable

Physico-chemical removability : No data available

Components:

S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate :

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301B

Stability in water : Hydrolysis: at25 °C
pH: 4
Stable

(DT50)
Degradation half life: > 365 d
Hydrolysis: at20 °C
pH: 7

(DT50)
Degradation half life: 24 d

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Hydrolysis: at 20 °C

pH: 9

(DT50)

Degradation half life: 11 d

Hydrolysis: at 25 °C

pH: 9

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

Components:

S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate :

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)

Exposure time: 28 d

Bioconcentration factor (BCF): 283 - 289

Partition coefficient: n-octanol/water

: log Pow: 3,52 at 25 °C

Method: OECD Test Guideline 107

12.4 Mobility in soil

Product:

Mobility : No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A Chemical Safety Assessment is not required for this mixture.

Components:

S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate :

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

: This substance is not considered to be very persistent and very bioaccumulating (vPvB).

: A Chemical Safety Assessment is not required for this substance.

12.6 Other adverse effects

Product:

Additional ecological information : No other known adverse effects on the environment

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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- Product : Do not empty into drains.
Dispose of in accordance with local regulations.
Do not dispose of together with household waste.
- Contaminated packaging : Do not re-use empty containers.
Dispose of empty packages through the specific collection services.

SECTION 14: Transport information

14.1 UN number

- ADR : 3077
IMDG : 3077
IATA : 3077

14.2 Proper shipping name

- ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate)
- IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate)
- IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (S-allyl 5-amino-2,3-dihydro-2-isopropyl-3-oxo-4--(o-tolyl) pyrazole-1-carbothioate)

14.3 Transport hazard class

- ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

- ADR
Labels : 9
Tunnel restriction code : (E)

- IMDG
Packaging group : III
Labels : 9

- IATA
Packaging group : III
Labels : 9

14.5 Environmental hazards

- ADR
Environmentally hazardous : yes

- IMDG
Marine pollutant : yes

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IATA

Environmentally hazardous : yes

14.6 Special precautions for user

For personal protection see section 8.

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

Remarks : Not applicable

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of H-Statements

H411 Toxic to aquatic life with long lasting effects.

Further information

Other information : Alterations are indicated in the left hand margin by: II
This version replaces all previous versions.

Please note the convention used in this document for decimal points and commas for numerical values is as demonstrated by the example: 2,000 is two (to 3 decimal places) and not two thousand, whilst 1.000 is one thousand and not 1 (to 3 decimal places)

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