

For further information - lift this page for full details



Reg. No: 03-B-78-1

TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.

THIS PRODUCT WHEN STORED IN ITS UNOPENED ORIGINAL CONTAINER AWAY FROM DIRECT SUNLIGHT AND IN A COOL DRY PLACE WILL BE FIT FOR USE FOR AT LEAST 2 YEARS.

PRECAUTIONS

- 1. HANDLE WITH CARE: avoid contact with skin.
- WEAR PROTECTIVE CLOTHING. i.e. rubber or plastic gloves for mixing, and overalls.
- 3. WASH HANDS AND FACE THOROUGHLY AFTER COMPLETION OF SPRAYING.
- 4. KEEP OUT OF REACH OF CHILDREN.
- 5. KEEP APART FROM FOOD AND FOODSTUFFS.
- 6. Store in original container and KEEP UNDER LOCK AND KEY.
- 7. Destroy empty container and **DO NOT** use for any other purpose.
- 8. **Prosper 500 EC** is irritating to the eyes, skin and mucous membranes.
- 9. **DO NOT** inhale fumes or spraymist.
- 10. **DO NOT** eat, drink or smoke whilst mixing, applying or before washing hands and face.
- 11. Toxic to fish and wildlife.
- 12. Avoid drift of spray to other crops, grazing, rivers, dams and areas that will not be treated.
- 13. RE-ENTRY: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

SYMPTOMS OF POISONING

No specific symptoms are to be expected.

FIRST AID

- 1. If contamination is likely, STOP WORK.
- 2. Remove contaminated clothing and wash skin and hair thoroughly.
- If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. Rinse mouth.
- 4. CALL A DOCTOR AND SHOW HIM THIS LABEL.
- 5. In case of eve splashes or skin contact, rinse affected area with water for 10 minutes.
- In case of skin contact, wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water.

NOTE TO PHYSICIAN

In case of ingestion it should be considered to administer gastric lavage, within the first 2 hours, if significant amounts have been ingested. However, the application of activated charcoal and sodium sulphate is always advisable.

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TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.

THIS PRODUCT WHEN STORED IN ITS UNOPENED ORIGINAL CONTAINER AWAY FROM DIRECT SUNLIGHT AND IN A COOL, DRY PLACE WILL BE FIT FOR USE FOR AT LEAST 2 YEARS.

WARNINGS

- ROSES: ALLOW 1 DAY BETWEEN LAST APPLICATION AND HARVEST.
- 2. WARNING AGAINST RESISTANCE: Prosper 500 EC is an ergosterol biosynthesis inhibiting (non-DMI) fungicide from a new chemical group (spiroketalamine) recommended for the control of important plant diseases. Repeated exclusive use of Prosper 500 EC may lead to a buildup of resistant strains of fungi resulting in a loss of disease control. If a resistant strain is positively identified, consideration should be given to prompt use of another fungicide from another chemical group. A spray programme or alternations with other fungicides such as triazoles (DMI fungicides), strobilurines, etc. may delay resistant strain buildup.
- 3. **DO NOT** apply more than **THREE** sprays of **Prosper 500 EC** per season.
- 4. Prosper 500 EC has been tested on some of the major commercial rose varieties and shown good plant tolerance. As the different varieties may vary in their sensitivity to this chemical, check for crop compatibility by first treating a few plants before making a full-scale application.
- Do not apply Prosper 500 EC in combination with wetter/stickers or as a tank mixture with trace or micro element sprays.

PRECAUTIONS

- 1. HANDLE WITH CARE; avoid contact with skin.
- 2. WEAR PROTECTIVE CLOTHING, i.e. rubber or plastic gloves for mixing, and overalls.
- 3. WASH HANDS AND FACE THOROUGHLY AFTER COMPLETION OF SPRAYING.
- 4. KEEP OUT OF REACH OF CHILDREN.
- 5. KEEP APART FROM FOOD AND FOODSTUFFS.
- 6. Store in original container and KEEP UNDER LOCK AND KEY.
- 7. Destroy empty container and **DO NOT** use for any other purpose.
- 8. **Prosper 500 EC** is irritating to the eyes, skin and mucous membranes.
- 9. **DO NOT** inhale fumes or spraymist.
- 10. **DO NOT** eat, drink or smoke whilst mixing, applying or before washing hands and face.
- 11. Toxic to fish and wildlife.
- 12. Avoid drift of spray to other crops, grazing, rivers, dams and areas that will not be treated.
- RE-ENTRY: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

SYMPTOMS OF POISONING

No specific symptoms are to be expected.

FIRST AID

- 1. If contamination is likely. **STOP WORK**.
- 2. Remove contaminated clothing and wash skin and hair thoroughly.
- If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. Rinse mouth.
- 4. CALL A DOCTOR AND SHOW HIM THIS LABEL.
- 5. In case of eye splashes or skin contact, rinse affected area with water for 10 minutes.
- In case of skin contact, wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water.

NOTE TO PHYSICIAN

In case of ingestion it should be considered to administer gastric lavage, within the first 2 hours, if significant amounts have been ingested. However, the application of activated charcoal and sodium sulphate is always advisable.

WARRANTY

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept

responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

COMPATIBILTY

Prosper 500 EC can be used on roses in tank mixtures with any one of the following:

Milraz 76 WP, Dithane WG and Rovral Flo.

Tank mixtures of Prosper 500 EC with other products are not recommended. Bayer (Pty) Ltd does not accept responsibility for the crop tolerance of tank mixtures where the formulation of products have changed.

Prosper 500 EC can be used on grapes in tank mixtures with any one of the following: Teldor 500

SC, Milraz 76 WP, Dithane WĞ, Flowable Sulphur, manganese sulphate and zinc oxide. Tank mixtures of Prosper 500 EC with other products are not recommended. Bayer (Pty) Ltd, however, does not accept responsibility for the crop tolerance of tank mixtures where the formulation of products have changed.

Allow 7 days between the application of Prosper 500 EC and products not listed above and do not apply Prosper 500 EC in combination with wetter/stickers or as a tank mixture with trace or macro element sprays in grapes.

MIXING INSTRUCTIONS

Pour the required volume of **Prosper 500 EC** into the water in the spray tank whilst agitating. Do not allow the **Prosper 500 EC** spray mixture to stand any length of time before using. Do not use brackish water.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED		
CROP / DISEASE	DOSAGE RATE	REMARKS
TABLE GRAPES Powdery mildew (Oidium tuckeri)	HIGH VOLUME APPLICATION 10 - 14 day programme 60 mℓ / 100 ℓ water (300 - 600 mℓ / ha)	Commence applications when shoots are \pm 2-5 cm long and repeat at intervals as indicated. Do not apply after commencement of the flowering stage and do not apply more than three Prosper 500 EC sprays per season. Apply other registered fungicides to control powdery mildew after flowering. NB. DO NOT APPLY AFTER COMMENCEMENT OF THE FLOWERING STAGE.
Powdery mildew (Oidium tuckeri) APPL 10 - prog 60 m/ /	HIGH VOLUME APPLICATION 10 - 14 day programme 60 mℓ / 100 ℓ water (180 - 900 mℓ / ha)	Commence applications when shoots are \pm 2-5 cm long and repeat at intervals as indicated.
	18 - 21 day programme 90 mℓ / 100 ℓ water (270 - 1350 mℓ / ha)	Commence applications when shoots are ± 2-5 cm long and repeat at intervals as indicated. Do not apply more than three Prosper 500 EC sprays per season. Apply other registered fungicides for the further control of powdery mildew. WARNING: ALLOW 21 DAYS BETWEEN LAST APPLICATION AND HARVEST.

CROP / DISEASE	DOSAGE RATE	REMARKS
PEAS Powdery mildew (Erysiphe pisi)	GROUND APPLICATION 100 mℓ / 100 ℓ water AERIAL APPLICATION 500 mℓ / ha in 40 ℓ water / ha	Apply at the first signs of the disease and repeat at 10-14 day intervals depending on infection. To ensure thorough coverage of the leaves and to avoid excessive run-off add Citowett at a rate of 25 ml/100 l spray mixture /ha. Apply 500 l spray mixture/ha in the case of ground application. Do not apply more than 3 times per season. WARNING: ALLOW 7 DAYS BETWEEN LAST APPLICATION AND HARVEST.
MANGOES Powdery mildew (Oidium mangiferae)	60 mℓ / 100 ℓ water	Commence application at the first signs of infection and repeat at intervals of 10-14 days upto 100% petal drop. Usually the first application takes place when 50 % of the flowers are open. This is then followed by a further 2-3 sprays depending on weather conditions and uniformity of the flowering period. Apply as a cover spray and ensure thorough coverage of the flower panicles.
ROSES Powdery mildew (Sphaerotheca pannosa)	90 mℓ / 100 ℓ water	For use on roses in glasshouses and enclosed areas only. Apply as a high volume spray at the first signs of infection and repeat at 7-10 day intervals. Do not apply Prosper 500 EC more than three times per season. Apply other registered fungicides for further control of powdery mildew.

NOTE:

1. High volume application on grapes:

Spray to the point of run-off ensuring even coverage. Depending on the leaf area present, 300-1500 ℓ spray mixture / ha should be applied as follows:

Growth stage	Water volume ℓ/ha	
	Wine grapes	Table grapes
Shoots 2-5 cm long up to and including just before blossom	300-750	500-1 000
Flowering up to pea-size of the berries	750-1 000	-
Berries at pea-size up to harvest	1 000-1 500	-

2. Low volume application on grapes:

Prosper 500 EC can be applied as a low volume application. The volume of product needed per hectare should be calculated from the corresponding high volume application. The concentration of the spray mix should not exceed four times (4X). Apply in at least 250 ℓ /ha. Ensure even coverage.

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PROSPER EC500

 Version 2 / ZA
 Revision Date: 08.08.2017

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 Print Date: 08.08.2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name PROSPER EC500

Product code (UVP) 06280714

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

Use Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer (Pty) Ltd.

27 Wrench Road, P.O. Box 143

1600 Isando South Africa

Telephone +27 (011) 921 5911 **Telefax** +27 (011) 921 5766

Responsible Department QHSE - Nigel, South Africa

+27 (011) 365 8675 (during business hours only)

1.4 Emergency telephone no.

Emergency telephone no. +27 (0861) 555 777 (Western Cape Poisons Helpline)

Global Incident Response

Hotline (24h)

+1 (760) 476 3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute toxicity: Category 4

H302 Harmful if swallowed. H332 Harmful if inhaled.

Skin irritation: Category 2

H315 Causes skin irritation.

Serious eye damage: Category 1

H318 Causes serious eye damage.

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - repeated exposure: Category 2

H373 May cause damage to organs (Eyes) through prolonged or repeated exposure.

Reproductive toxicity: Category 2

H361d Suspected of damaging the unborn child.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.



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2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Spiroxamine
- Benzyl alcohol
- Dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)









Signal word: Danger

Hazard statements

⊔ 2∩2 ₁ ⊔ 222	Harmful if swallowed or if inhaled.
M3UZ + M33Z	Harmiui ii Swallowed or ii innaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs (Eyes) through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

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

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P338 present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/ physician.

P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Emulsifiable concentrate (EC) Spiroxamine 500 g/l

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	REGULATION (EC) No 1272/2008	
Spiroxamine	118134-30-8	Acute Tox. 4, H302 Acute Tox. 4, H312	49,80



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		Acute Tox. 4, H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Benzyl alcohol	100-51-6	Acute Tox. 4, H332 Acute Tox. 4, H302 Eye Irrit. 2, H319	> 25
Dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)	26836-07-7	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	> 5,00 - < 20
Ethoxylated polyarylphenol	99734-09-5	Aquatic Chronic 3, H412	> 1,00 - < 25,00

Further information

Spiroxamine	118134-30-8	M-Factor: 100 (acute), 100 (chronic)
Dodecylbenzenesu	26836-07-7	M-Factor: 1 (acute)
Iphonic acid,		
compound with		
2-aminoethanol		
(1:1)		

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

General advice Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

Skin contact Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water. If symptoms

persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control

center immediately.

Ingestion Rinse mouth. Do NOT induce vomiting. Call a physician or poison

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed



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Treat mentTreat symptomatically. In case of ingestion gastric lavage should be

considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is

always advisable. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO2), Foam, Sand

5.2 Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event of

fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning upSoak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable,

closed containers for disposal.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities



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Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized

persons only. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materials HDPE (high density polyethylene)7.3 Specific end use(s) Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No control parameters known.

8.2 Exposure controls

Respiratory protection

If product is handled while not enclosed, and if contact may occur: Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0,4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent)

and faceshield (conforming to EN166, Field of Use = 3 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 Type 4 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully

remove and dispose of as advised by manufacturer.

General protective measures If product is handled while not enclosed, and if contact may occur:

Complete suit protecting against chemicals



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form Liquid, clear to slightly turbid

Colour vellow to brown

Odour aromatic

рН 9,4 at ca. 1 % (23 °C) (deionized water)

Flash point 108 ℃ 265 ℃ Ignition temperature

The product is not self-ignitable. **Auto-ignition temperature**

Density ca. 1,00 g/cm³ at 20 ℃

Water solubility emulsifiable

Partition coefficient: Spiroxamine: log Pow: 2,8 - 3,0 at 20 ℃ at pH 7

n-octanol/water

Viscosity, dynamic 82 mPa.s at 20 ℃ Velocity gradient 150 /s

Viscosity, kinematic 82 mm²/s at 20 ℃ Oxidizing properties No oxidizing properties

Explosivity Not explosive

92/69/EEC, A.14 / OECD 113

9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of No hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous No decomposition products expected under normal conditions of use.

decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 500 - < 1.000 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity LC50 (Rat) 2,323 mg/l



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Exposure time: 4 h

Determined in the form of a respirable aerosol. Test conducted with a similar formulation.

Acute dermal toxicity LD50 (Rat) > 2.000 mg/kg

Test conducted with a similar formulation.

Skin irritation Irritating to skin. (Rabbit)

Test conducted with a similar formulation.

Eye irritation Severe eye irritation. (Rabbit)

Test conducted with a similar formulation.

Sensitisation Non-sensitizing. (Guinea pig)

OECD Test Guideline 406, Buehler test

Sensitising (Mouse)

OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment STOT Specific target organ toxicity - single exposure

Spiroxamine: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

Spiroxamine caused specific target organ toxicity in experimental animal studies in dogs in the following organ(s): Eyes.

Assessment mutagenicity

Spiroxamine was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Spiroxamine was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Spiroxamine caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Spiroxamine is related to parental toxicity.

Assessment developmental toxicity

Spiroxamine caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Spiroxamine are related to maternal toxicity.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 11,5 mg/l

Exposure time: 96 h

Test conducted with a similar formulation.

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) 10,3 mg/l invertebrates Exposure time: 48 h

Test conducted with a similar formulation.

Toxicity to aquatic plants EC50 (Desmodesmus subspicatus (green algae)) 0,029 mg/l

Growth rate; Exposure time: 72 h

Test conducted with a similar formulation.



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12.2 Persistence and degradability

Biodegradability Spiroxamine:

Not rapidly biodegradable

Koc Spiroxamine: Koc: 2415

12.3 Bioaccumulative potential

Bioaccumulation Spiroxamine: Bioconcentration factor (BCF) 87

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Spiroxamine: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Spiroxamine: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product In accordance with current regulations and, if necessary, after

consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging Not completely emptied packagings should be disposed of as hazardous

waste.

SECTION 14: TRANSPORT INFORMATION

SANS 10231

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIROXAMINE, BENZYLALCOHOL SOLUTION)

14.3 Transport hazard class(es) 9

14.4 Packing group Ш 14.5 Environm. Hazardous Mark YES

IMDG

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIROXAMINE, BENZYLALCOHOL SOLUTION)

14.3 Transport hazard class(es)

9 14.4 Packing group Ш 14.5 Marine pollutant YES

IATA

3082 14.1 UN number



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14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S

(SPIROXAMINE, BENZYLALCOHOL SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environm. Hazardous Mark YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

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

Further information

WHO-classification: II (Moderately hazardous)

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H302
Harmful if swallowed.
H312
Harmful in contact with skin.
H315
Causes skin irritation.
H317
May cause an allergic skin reaction.
H318
Causes serious eye damage.
H319
Causes serious eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code)



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ICx Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

Lethal dose to x % LDx

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships **MARPOL**

Not otherwise specified N.O.S.

NOEC/NOEL No observed effect concentration/level

Organization for Economic Co-operation and Development OECD

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time weighted average

UN **United Nations**

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.