

FRONT

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

#### PRECAUTIONS

- 1. HANDLE WITH CARE; avoid any contact, poisonous by swallowing or inhalation.
- 2. May cause skin burn or skin irritation in case of skin contact.
- 3. DO NOT eat, drink or smoke whilst mixing, applying or before washing hands and face.
- 4. WEAR PROTECTIVE CLOTHING, i.e. overalls, rubber gloves, and rubber boots and a facemask while mixing, spraying and cleaning up.
- 5. **DO NOT** inhale fumes or spray mist.
- 6. Remove protective clothing on completion of spraying, wash thoroughly with soap and water, and wash contaminated clothing daily.
- 7. Avoid drift of spray on to other crops, grazing, rivers, dams and areas not under treatment.
- 8. Clean applicator after use, dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- 9. KEEP APART FROM FOOD AND FEEDSTUFFS.
- 10. KEEP OUT OF REACH OF CHILDREN, UNINFORMED PERSONS AND ANIMALS.
- 11. STORE IN A COOL, DRY PLACE IN ORIGINAL CONTAINER AND KEEP UNDER LOCK AND KEY.
- 12. TOXIC TO FISH AND WILD LIFE. DO NOT CONTAMINATE DRINKING POOLS, DAMS, RIVERS AND WATERWAYS.
- 13. SPILLAGE Use protective clothing when dealing with spillages. Prevent entry into drains, water or soil. Soak up spilled product with absorbent material such as dry soil, sawdust or sand and place into a labeled closable container for safe disposal. Use damp cloth to clean the floor and contaminated parts. Place used cleaning materials into closable container for safe disposal. Bury container in a disposable pit away from water sources or arable land.
- 14. CONTAINER DISPOSAL Triple rinse container emptying washings into spray tank and spray onto crop. Perforate and flatten rinsed container to make it unusable or burn it and bury crushed container or ashes in a recommended disposal pit in a secure location away from water sources or arable land. DO NOT use empty container for any other purpose.
- 15. <u>RE-ENTRY</u>: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

#### SYMPTOMS OF POISONING

No specific symptoms known.

#### FIRST AID

General advice: Remove contaminated clothing immediately and dispose of safely.

Move out of dangerous area. Place and transport victim in stable position (lying sideways).

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. Call a physician or poison control center immediately.

**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:** Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

# NOTE TO PHYSICIAN

#### Treatment:

Treat 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.

Antidote: There is no specific antidote.

## 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 pathogen 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.

#### **RESISTANCE MANAGEMENT:**

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with registered products from different fungicide group codes.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

# DIRECTIONS FOR USE: USE ONLY AS DIRECTED

#### **COMPATIBILITY:**

**Prosper Trio** can be mixed with most commonly used insecticides. However, a pre-test on the physical compatibility and a plant safety test is recommended before wide spread use of such a combination.

#### METHOD OF APPLICATION:

#### Ground Application:

- **Prosper Trio** may be applied with conventional high volume spray equipment. Calibrate the apparatus before application to ensure that the correct dosage is applied. The distribution of the spray volume must be uniform throughout the target area. Ensure good coverage of the whole plant by using enough water and suitable spraying equipment.
- Apply the recommended dosage rate of Prosper Trio in 200 300 liters water per hectare.

#### MIXING INSTRUCTIONS:

Pour the required quantity of **Prosper Trio** into the water while agitating. Do not allow the **Prosper Trio** spray mixture to stand any length of time before using.

APPLICATION TABLE:	
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CROP / DISEASE	DOSAGE RATE	REMARKS
WHEAT		<ol> <li>Prosper Trio should be applied at the first signs of infection before 5 % infection level is reached.</li> <li>A second application 21 days after the initial application is recommended for wheat with a high yield potential, particularly in cases where the initial application was made early (first node stage) or when other diseases develop later in the season.</li> <li>In cases where the wheat will not be grazed, the hay may not be used as animal feed and disease development occurs late, Prosper Trio can be applied as late as the early milk stage of the wheat. THE CROP MAY NOT BE GRAZED AND THE HAY MAY NOT BE USED AS ANIMAL FEED. ALSO DO NOT HARVEST GRAIN WITHIN 56 DAYS OF LAST APPLICATION.</li> </ol>
Powdery mildew (Erysiphe graminis)	GROUND & AERIAL APPLICATION 500 mℓ / ha	Spray as soon as symptoms are noticed. Repeat application should symptoms reappear.
Leaf blotch (Speckled) <i>(Septoria tritici)</i>	GROUND & AERIAL APPLICATION 500 mℓ / ha	Application must be made not later than the appearance of the flag leaf.
Yellow (stripe) rust (Puccinia striiformis)	GROUND & AERIAL APPLICATION 500 mℓ / ha	Apply when first symptoms are noticed. Repeat application if symptoms reappear.
Leaf (brown) rust (Puccinia triticina = Puccinia recondita)	GROUND & AERIAL APPLICATION 500 mℓ / ha	Spray as soon as symptoms are noticed. Repeat application should symptoms reappear.
OATS Crown rust (Puccinia coronata)	GROUND & AERIAL APPLICATION 300 mℓ / ha	Apply first application at the first signs of infection. Apply second application when infection increases or 28 days after the first application. NB. THE CROP MAY NOT BE GRAZED AND THE HAY MAY NOT BE USED AS ANIMAL FEED. ALSO DO NOT HARVEST GRAIN WITHIN 56 DAYS OF LAST APPLICATION.

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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier

I.I I I Oudet Identifier		
Trade name	PROSPER TRIO EC460	
Product code (UVP)	06353711	
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.

Acute toxicity: Category 4 H332 Harmful if inhaled.

Skin corrosion: Category 1BH314Causes severe skin burns and eye damage.

Specific target organ toxicity - single exposure: Category 3 H335 May cause respiratory irritation.

Reproductive toxicity: Category 1B H360 May damage fertility or the unborn child.

Effects on or via lactation

H362 May cause harm to breast-fed children.

Specific target organ toxicity - repeated exposure: Category 2H373May cause damage to organs (Eye) through prolonged or repeated exposure.

Acute aquatic toxicity: Category 1 H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1



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H410 Very toxic to aquatic life with long lasting effects.

# 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
- Tebuconazole
- Triadimenol
- N,N-Dimethyl decanamide



# Signal word: Danger

# Hazard statements

H302 + H332	Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. May damage fertility or the unborn child. May cause harm to breast-fed children. May cause damage to organs (Eye) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Restricted to professional users.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs (Eye) through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
	Restricted to professional users.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
EUH401 EUH208	Contains Spiroxamine. May produce an allergic reaction.

# **Precautionary statements**

P201	Obtain special instructions before use. Avoid contact during pregnancy/ while nursing. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN: Wash with plenty of water/ soap. If eye irritation persists: Get medical advice/ attention. Call a POISON CENTER/doctor/physician if you feel unwell. Dispose of contents/container in accordance with local regulation.
P263	Avoid contact during pregnancy/ while nursing.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of water/ soap.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
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 250 g/l, Tebuconazole 167 g/l, Triadimenol 43 g/l

## Hazardous components

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



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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 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	25,2
Tebuconazole	107534-96-3	Acute Tox. 4, H302 Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410	16,8
Triadimenol	55219-65-3	Acute Tox. 4, H302 Repr. 1B, H360 Lact., H362 Aquatic Chronic 2, H411	4,3
gamma-Butyrolactone	96-48-0	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT SE 3, H336	> 1 - < 15
N,N-Dimethyl decanamide	14433-76-2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	> 20
Alkylarylpolyglycol ether	104376-75-2	Aquatic Chronic 3, H412	> 1 - < 25

# **Further information**

Spiroxamine	118134-30-8	M-Factor: 100 (acute), 100 (chronic)
		M-Factor: 100 (acute), 100 (chronic)
Tebuconazole	107534-96-3	M-Factor: 1 (acute), 10 (chronic)

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	Remove contaminated clothing immediately and dispose of safely. Move out of dangerous area. Place and transport victim in stable position (lying sideways).	
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. Call a physician or poison control center immediately.	
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.	



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Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.	
4.2 Most important symptom	s and effects, both acute and delayed	
Symptoms	No symptoms known or expected.	
4.3 Indication of any immediate medical attention and special treatment needed		
Treatment	Treat 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	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet
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), Hydrogen chloride (HCI), 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 up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.	
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.



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# Advice on protection against No special precautions required. fire and explosion

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). Wash hands before breaks and immediately after handling the product.
7.2 Conditions for safe storage	ge, including any incompatibilities
Requirements for storage areas and containers	Store in a place accessible by authorized persons only. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from frost.
Advice on common storage	Keep away from food, drink and animal feedingstuffs.
Suitable materials	HDPE (high density polyethylene) Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol copolymer (EVOH)
7.3 Specific end use(s)	Refer to the label and/or leaflet.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Tebuconazole	107534-96-3	0,2 mg/m3 (SK-ABS)		OES BCS*
Triadimenol	55219-65-3	1,6 mg/m3 (TWA)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

# 8.2 Exposure controls

Respiratory protection	European norm EN14594 of gas and vapour filter mask ( Type A filter or equivalent. Respiratory protection shoul short duration activities, whe been taken to reduce expos	birator (continuous flow) conforming to r EN14563-1 or equivalent or an organic protection factor 20) conforming to EN136 Id only be used to control residual risk of en all reasonably practicable steps have ure at source e.g. containment and/or ays follow respirator manufacturer's ng and maintenance.
Hand protection	ion Please observe the instructions regarding permeability breakthrough time which are provided by the supplier Also take into consideration the specific local condition the product is used, such as the danger of cuts, abras 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



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	Protective index Directive	Class 6 Protective gloves complying with EN 374.
Eye protection		to EN166, Field of Use = 5 or equivalent) to EN166, Field of Use = 3 or equivalent).
Skin and body protection	type suit. Wear two layers of clothing cotton overalls should be we should be professionally lau If chemical protection suit is	the exposure, consider a higher protective wherever possible. Polyester/cotton or orn under chemical protection suit and undered frequently. s splashed, sprayed or significantly the as far as possible, then carefully
General protective measures	If product is handled while r Complete suit protecting ag	not enclosed, and if contact may occur: ainst chemicals

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Form	Liquid, clear
Colour	tan
Odour	aromatic
рН	7,0 - 9,0 at 1 % (23 °C) (deionized water)
Flash point	110 ℃
Auto-ignition temperature	315 °C
Density	ca. 0,99 g/cm³ at 20 ℃
Water solubility	emulsifiable
Partition coefficient: n-octanol/water	Spiroxamine: log Pow: 2,8 - 3,0 at 20 °C at pH 7
	Tebuconazole: log Pow: 3,7 Triadimenol: log Pow: 3,08 - 3,28 N,N-Dimethyldecanamide: log Pow: 2,46
Viscosity, dynamic	15 mPa.s at 40 ℃ Velocity gradient 100 /s
	35 mPa.s at 20 ℃ Velocity gradient 100 /s
Viscosity, kinematic	35,4 mm²/s at 20 °C
Surface tension	31,06 mN/m at 25 $^{\circ}$ C Determined as a 1% solution in distilled water.
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.



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# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity

Thermal decomposition	from 220 °C, Heating rate: 0,05 K/min Determined in glass. Endothermic. from 245 °C, Heating rate: 0,05 K/min Determined in glass. Exothermic decomposition.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions when stored and handled according to 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 decomposition products	No decomposition products expected under normal conditions of use.

# 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	ATE (Mix) 1,5 mg/l Calculation method
Acute dermal toxicity	LD50 (Rat) >2.000 mg/kg Test conducted with a similar formulation.
Skin irritation	corrosive (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 Test conducted with a similar formulation.

# Assessment STOT Specific target organ toxicity - single exposure

Spiroxamine: Based on available data, the classification criteria are not met. Tebuconazole: Based on available data, the classification criteria are not met. Triadimenol: Based on available data, the classification criteria are not met. N,N-Dimethyldecan-1-amide: May cause respiratory irritation.

#### 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.

Tebuconazole did not cause specific target organ toxicity in experimental animal studies. Triadimenol did not cause specific target organ toxicity in experimental animal studies.



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N,N-Dimethyldecanamide did not cause specific target organ toxicity in experimental animal studies.

## Assessment mutagenicity

Spiroxamine was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Tebuconazole was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Triadimenol was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. N,N-Dimethyldecanamide was not genotoxic in a battery of in vitro tests.

## Assessment carcinogenicity

Spiroxamine was not carcinogenic in lifetime feeding studies in rats and mice. Tebuconazole caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism of tumour formation is not considered to be relevant to man. Triadimenol caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver. The increased tumour incidence is not considered to be treatment related. N,N-Dimethyldecanamide is not considered carcinogenic.

## 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. Tebuconazole 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 Tebuconazole is related to parental toxicity. Triadimenol caused reduced fertility, reduced lactation rate. The reproduction toxicity seen with Triadimenol is related to parental toxicity.

N,N-Dimethyldecanamide is not considered a reproductive toxicant at non-maternally toxic dose levels.

# 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.

Tebuconazole caused developmental toxicity only at dose levels toxic to the dams. Tebuconazole caused an increased incidence of post implantation losses, an increased incidence of non-specific malformations. Triadimenol caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Triadimenol are related to maternal toxicity.

N,N-Dimethyldecanamide did not cause developmental toxicity in rats and rabbits.

## Aspiration hazard

12.1 Toxicity

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

# **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 13,1 mg/l Exposure time: 96 h Test conducted with a similar formulation.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 5,4 mg/l Exposure time: 48 h Test conducted with a similar formulation.
Chronic toxicity to aquatic invertebrates	NOEC (Daphnia (water flea)): 0,010 mg/l Exposure time: 21 d The value mentioned relates to the active ingredient tebuconazole.
Toxicity to aquatic plants	EC50 (Desmodesmus subspicatus (green algae)) >= 560 µg/l Growth rate; Exposure time: 72 h Test conducted with a similar formulation.



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	EC50 (Lemna gibba (gibbous duckweed)) 0,237 mg/l Growth rate; Exposure time: 7 d The value mentioned relates to the active ingredient tebuconazole.
12.2 Persistence and degrad	lability
Biodegradability	Spiroxamine: Not rapidly biodegradable Tebuconazole: Not rapidly biodegradable Triadimenol: Not rapidly biodegradable N,N-Dimethyldecanamide: rapidly biodegradable
Кос	Spiroxamine: Koc: 2415 Tebuconazole: Koc: 769 Triadimenol: Koc: 273
12.3 Bioaccumulative potent	tial
Bioaccumulation	Spiroxamine: Bioconcentration factor (BCF) 87 Does not bioaccumulate. Tebuconazole: Bioconcentration factor (BCF) 35 - 59 Does not bioaccumulate. Triadimenol: Bioconcentration factor (BCF) 21 Does not bioaccumulate. N,N-Dimethyldecanamide: Does not bioaccumulate.
12.4 Mobility in soil	
Mobility in soil	Spiroxamine: Slightly mobile in soils Tebuconazole: Slightly mobile in soils Triadimenol: Moderately mobile in soils N,N-Dimethyldecanamide: Slightly mobile in soils
12.5 Results of PBT and vPv	B 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). Tebuconazole: 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). Triadimenol: 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). N,N-Dimethyldecanamide: 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** 



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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	<b>1760</b>
14.1 UN number	CORROSIVE LIQUID, N.O.S.
14.2 Proper shipping name	(SPIROXAMINE, N,N-DIMETHYLDECANAMIDE SOLUTION)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
IMDG	<b>1760</b>
14.1 UN number	CORROSIVE LIQUID, N.O.S.
14.2 Proper shipping name	(SPIROXAMINE, N,N-DIMETHYLDECANAMIDE SOLUTION)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Marine pollutant	YES
IATA	<b>1760</b>
14.1 UN number	CORROSIVE LIQUID, N.O.S.
14.2 Proper shipping name	(SPIROXAMINE, N,N-DIMETHYLDECANAMIDE SOLUTION )
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environm. Hazardous Mark	NO

## 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.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



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- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H360 May damage fertility or the unborn child.
- H361d Suspected of damaging the unborn child.
- H362 May cause harm to breast-fed children.
- 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.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

## Abbreviations and acronyms

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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)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time weighted average
UN	United Nations
WHO	World health organisation
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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.

#### Reason for Revision:

The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



# **PROSPER TRIO EC460**

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