



ESCOLTA



3Le



A fungicide for the control of foliar diseases in sugar beet

MAPP 13923

A suspension concentrate formulation containing 160 g/L (13.8 % w/w) cyproconazole and 375 g/L (32.3% w/w) trifloxystrobin

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Bayer CropScience Limited
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Milton Road, Cambridge CB4 0WB
Telephone: 01223 226500

For 24 hour emergency information contact
Bayer CropScience Limited
Telephone: 0800 220876

SAFETY PRECAUTIONS

Operator Protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and when handling contaminated surfaces.

However engineering control may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WHEN USING DO NOT EAT, DRINK OR SMOKE. IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible). DO NOT BREATHE SPRAY.

WASH SPLASHES from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

Environmental Protection

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.

Storage and Disposal

KEEP OUT OF REACH OF CHILDREN. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank, and dispose of safely.

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ESCOLTA

Contains 160 g/L (13.8 % w/w) cyproconazole and 375 g/L (32.3 % w/w) trifloxystrobin.



HARMFUL

DANGEROUS FOR THE ENVIRONMENT

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

POSSIBLE RISK OF HARM TO THE UNBORN CHILD

Wear suitable protective clothing and gloves.

This material and its container must be disposed of in a safe way.

Use appropriate containment to avoid environmental contamination.

To avoid risks to man and the environment, comply with the instructions for use.

Contains trifloxystrobin. May produce an allergic reaction.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crop:	Sugar beet.
Maximum individual dose:	0.35 litre of product per hectare
Maximum number of treatments:	2 per crop
Latest time of application:	Up to 21 days before harvest

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

SHAKE WELL BEFORE USE
PROTECT FROM FROST

DIRECTIONS FOR USE

Trifloxystrobin is a strobilurin fungicide.

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

RESTRICTIONS

PROTECT FROM FROST
STORE IN A COOL DRY PLACE

DISEASES CONTROLLED

Powdery mildew
Rust
Cercospora leaf spot
Ramularia leaf spot

Through controlling foliar diseases, green leaf area will be prolonged during the period up to harvest.

TIMING AND DOSE

Apply Escolta at 0.35 L/ha at the onset of disease, usually late July / early August. Escolta will give most effective disease control when applied as the disease first becomes active in the crop and before disease becomes established. Escolta will give prolonged protection from re-infection, but a second spray may be applied 3-4 weeks later if crops are at risk from later attacks.

CROP SPECIFIC INFORMATION

Escolta may be used on all varieties of sugar beet.

APPLICATION

Water volume
Apply in 200-400 litres of water per hectare.

SPRAY QUALITY

Apply as a MEDIUM quality spray (as defined by BCPC).

MIXING AND SPRAYING

SHAKE WELL BEFORE USE.

Add half the volume of clean water to the spray tank. Turn on the agitation and add the recommended quantity of Escolta. Maintain continuous agitation until spraying is complete, including topping up the spray tank and during spraying and any stoppages until the spray tank is empty. Wash out all spray equipment thoroughly with water immediately after use. Sprayers should be thoroughly cleaned before use, and filters and jets checked for damage and blockages. Ensure that the spray bars are set at the correct height to give a good spray cover, and that alternate spray cones or fans meet just above the crop. Even cover with a well-mixed spray is essential for good results. In dense crops, higher water volumes should be used.

DISEASE RESISTANCE

Escolta contains trifloxystrobin, a member of the Qol cross resistance group and should always be used as early as possible in the disease cycle. Use as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. Certain diseases may develop resistance to Bayer CropScience Limited's products. Since such circumstances are beyond our control, Bayer CropScience can accept no liability for any loss or damage whatsoever.

COMPATIBILITY

Contact Bayer CropScience for compatibility information on specific tank-mixes. Full manufacturer's instructions must be followed for each tank-mix component.

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Section 6 of the Health and Safety at Work Act

Additional Product Safety Information (This section does not form part of the approved product label). The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted. The information on this label is based on the best available information including data from test results.

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

ESCOLTA Version 1 / GB Revision Date: 06.03.2008 102000008361

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

Product information

Trade name ESCOLTA
Product code (UVP) 05907403
Usage Fungicide
Company Bayer CropScience Limited, 230 Cambridge Science Park
Milton Road, Cambridge CB4 0WB
Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Responsible Dpt Email: ukinfo@bayercropscience.com
Emergency tel. number 0800-220876 (UK 24 hr) +44(0)1603-242424 (Overseas 24 hr)

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Suspension concentrate (=flowable concentrate)(SC)

Cyproconazole/Trifloxystrobin160:375 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Trifloxystrobin	141517-21-7	Xi, N	R43, R50/53	32.30
Cyproconazole	94361-06-5	Xn, N	R22, R50/53, R63	13.80
1,2-Propanediol	57-55-6 200-338-0			> 1.00

For the full text of the R phrases mentioned in this Section, see Section 16.

4. 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 water and soap, if available with polyethyleneglycol 400, subsequently rinse with water.

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. Get medical attention if irritation develops and persists.

Ingestion

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

Notes to Physician

Treatment

Treat symptomatically.
In case of ingestion perform gastric lavage, then administer charcoal (carbo medicalis) and sodium sulfate.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray
Carbon dioxide (CO2)
Foam
Sand

Specific hazards during fire fighting

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

Special protective equipment for fire-fighters

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with spilled product or contaminated surfaces.

Use personal protective equipment.

Environmental Precautions

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

If spillage enters drains leading to sewage works inform local water company immediately.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

Methods for Cleaning Up

Clean contaminated floors and objects thoroughly, observing environmental regulations.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Keep in suitable, closed containers for disposal.

Additional Advice

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers

Store in a place accessible by authorized persons only.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Temperature tolerance 0 °C to 40 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
1,2-Propanediol (Particulate.)	57-55-6	10 mg/m ³ (TWA)	2007	EH40 WEL
1,2-Propanediol (Total vapour and particulates.)	57-55-6	474 mg/m ³ / 150 ppm (TWA)	2007	EH40 WEL

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection

Not required; except in case of aerosol formation. 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

Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection

Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection

Wear standard coverall and type 6 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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	suspension
Colour	white
Odour	weak, characteristic

Safety data

Flash point	> 105 °C No flash point - Determination conducted up to the boiling point.
Ignition temperature	355 °C
Density approx.	1.14 g/cm ³ at 20 °C
Water	solubility dispersible
Viscosity, dynamic	600 - 1,000 mPa.s at 20 °C Velocity gradient 7.5 /s
Explosivity	Not explosive

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) >= 5,000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 1.962 mg/l Exposure time: 4 h Highest attainable concentration.
Acute Dermal Toxicity	LD50 (rat) > 4,000 mg/kg
Skin Irritation	No skin irritation. (rabbit)

Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0.0523 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0.0845 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) 0.54 mg/l Growth rate

13. DISPOSAL CONSIDERATIONS

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.
Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.
Add washings to sprayer at time of filling.
Dispose of empty and cleaned packaging safely.
Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.
Follow advice on product label and/or leaflet.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-Number	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSTROBIN, CYPROCONAZOLE)

IMDG

UN-Number	3082
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(TRIFLOXYSTROBIN, CYPROCONAZOLE)

IATA

UN-Number	3082
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSTROBIN, CYPROCONAZOLE)

UK 'Carriage' Regulations

UN-Number	3082
Labels	9
Packaging group	III
Hazard no.	90
Emergency action code	3Z
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSTROBIN, CYPROCONAZOLE)

15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Trifloxystrobin
- Cyproconazole

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrase(s)

R63	Possible risk of harm to the unborn child.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S35	This material and its container must be disposed of in a safe way.
S36	Wear suitable protective clothing.
S37	Wear suitable gloves.
S57	Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.
Contains trifloxystrobin. May produce an allergic reaction.

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 3:

R22	Harmful if swallowed.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.

The above information is intended to give general health and safety guidance on the storage and transport of the product. It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet. This version replaces all previous versions.