

**FLINT**Version 2 / D
102000077981/7
Revision Date: 06.10.2004
Print Date: 28.04.2005**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name FLINT
Product code (UVP) 05584493
Usage fungicide
Company Bayer CropScience AG
Alfred-Nobel-Straße 50
40789 Monheim
Germany

Telephone +49(0)69-305-5748
Telefax +49(0)69-305-80950
Responsible Department Material and Transport Safety Management
+49(0)69-305-82369/12588

Emergency telephone number +49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)

Supplier Bayer CropScience Deutschland GmbH
Elisabeth-Selbert-Straße 4a
D-40764 Langenfeld
Germany
Telephone: 02173 / 20760

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**Water dispersible granules (WG)
Trifloxystrobin 50 %**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases	Concentration [%]
Trifloxystrobin	141517-21-7	Xi, N	R43, R50/53	50,00
Dibutyl naphthalenesulfonic acid, sodium salt	25417-20-3 246-960-6	Xn	R20/22, R36/38	5,00

3. HAZARDS IDENTIFICATION**Risk advice to man and the environment**May cause sensitization by skin contact.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**4. FIRST AID MEASURES****General advice**

Move out of dangerous area. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove soiled or soaked clothing immediately. Also heed the risks

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to your own person.

Inhalation

Move the patient to fresh air and keep at rest. Call a physician immediately.

Skin contact

Wash off immediately with soap and plenty of water. Call a physician immediately.

Eye contact

In case of contact with eyes rinse thoroughly with water. Call a physician immediately.

Ingestion

Do not induce vomiting. Wash out mouth with water. Call a physician immediately.

Notes to physician**Treatment**

Treat symptomatically.

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)
hydrogen fluoride
carbon monoxide (CO)
nitrogen oxides (NO_x)

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
Use 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.
Wear personal protective equipment. Unprotected persons must be kept away.

Environmental precautions

Do not discharge into the drains/surface water/groundwater.

Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.
Clean contaminated floors and objects thoroughly, observing environmental regulations
Pack spilled material in suitable containers for recovery or disposal.

Additional advice

Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

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7. HANDLING AND STORAGE**Handling**

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Store in original container.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

German storage class 11 Combustible Solids

Storage stability

Storage temperature < 50 °C

Other data The storage temperature should not exceed 50 °C

Suitable materials

Only use containers that are approved specifically for the substance/ product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protective equipment**Respiratory protection If product is handled while not enclosed, and if skin contact may occur:
Dust mask

Hand protection PVC or other plastic material gloves

Eye protection tightly fitting safety goggles

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 or soaked clothing immediately and clean thoroughly before using again.

Garments that cannot be cleaned must be destroyed (burnt).

Protective measures

If product is handled while not enclosed, and if skin contact may occur:
complete suit protecting against chemicals

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**Form granular
Colour light brown
Odour slight, original odour

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Water solubility	dispersible
Impact Sensitivity	Not impact-sensitive

10. STABILITY AND REACTIVITY**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 (rat) > 2.000 mg/kg Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (rat) > 2.000 mg/kg Test conducted with a similar formulation.
Skin irritation	slight irritant effect - does not require labelling (rabbit) Test conducted with a similar formulation.
Eye irritation	slight irritant effect - does not require labelling (rabbit) Test conducted with a similar formulation.
Sensitization	sensitizing (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test Test conducted with a similar formulation.
Sensitization	Non-sensitizing (guinea pig) OECD 406, Buehler test Test conducted with a similar formulation.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0,036 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0,01 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) 0,15 mg/l Growth rate Exposure time: 72 h

13. DISPOSAL CONSIDERATIONS**Product**

Dispose of by incineration in an authorised special waste incineration plant. Comply with local legislation.
For larger quantities contact manufacturer.

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020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-No	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN)

IMDG

UN-No	3077
Class	9
Packaging group	III
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN)

IATA

UN-No	3077
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIFLOXYSTROBIN)

15. REGULATORY INFORMATION

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification:

Labelling according to EEC Directive

Hazardous components which must be listed on the label:

- Trifloxystrobin
- Dibutyl naphthalenesulfonic acid, sodium salt

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrases)

R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S-phrase(s)	
S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S57	Use appropriate container to avoid environmental contamination.

Classification and labelling according to German national legislation:

Symbol(s)	
Xi	Irritant
N	Dangerous for the environment

R-phrase(s)	
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)	
S 2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feedingstuffs.
S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S57	Use appropriate container to avoid environmental contamination.

Exceptional labelling

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

Further information

WHO-classification: III (Slightly hazardous)

National legislation

Registration No. (Germany)	4657-00
Water contamination class (Germany)	WGK 2 water endangering
Major Accident Hazard Legislation	Subjected to the "Disasters and Major Accidents Act " Annex I, list of dangerous substances, No. 9a

Other regulations

BG Leaflet M050 "Handling of Hazardous Substances"
BG Leaflet M053 "General Protective Measures for the handling of hazardous substances"**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

R20/22	Harmful by inhalation and if swallowed.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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The advice on classification in section 15 of this Safety Data Sheet is based on European Directive on Preparations (1999/45/EC and its subsequent adaptations). The legislation on pesticide preparations should be applied by EU Member States not later than 30 July 2004.

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. 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.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

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