

FLINT STAR SC520 4X5L BOT NBC

Version 1 / EU
102000011171

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Revision Date: 04.08.2006
Print Date: 04.04.2008

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

Product information

Trade name FLINT STAR SC520 4X5L BOT NBC
Product code (UVP) 06517358
Usage fungicide
Company Bayer CropScience AG
Alfred-Nobel-Straße 50
40789 Monheim
Germany
Telephone +49(0)2173-38-3373
Telefax +49(0)2173-38-7394
Responsible Department Material and Transport Safety Management
+49(0)2173-38-3409/4566

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Suspension concentrate (=flowable concentrate)(SC)
Pyrimethanil 400 g/l, Trifloxystrobin 120 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Pyrimethanil	53112-28-0	N	R51/53	36,00
Trifloxystrobin	141517-21-7	Xi, N	R43, R50/53	10,80

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice

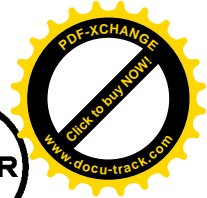
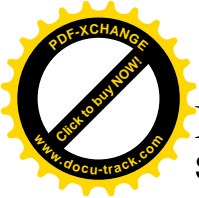
Remove contaminated clothing immediately and dispose of safely. Move out of dangerous area.
Place and transport victim in stable position (lying sideways).

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,



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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.

Gastric lavage is not normally required. If a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

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:

nitrous gases (NO_x)
hydrogen cyanide (hydrocyanic acid)
carbon monoxide (CO)
hydrogen fluoride

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.

Keep away sources of ignition.

Environmental Precautions

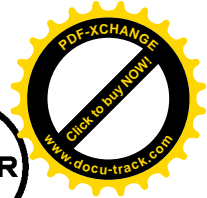
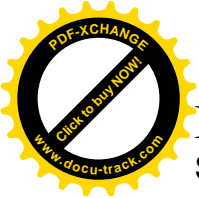
Do not discharge into the drains/surface water/groundwater.

Methods for Cleaning Up

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).

Clean contaminated floors and objects thoroughly, observing environmental regulations.

Keep in suitable, closed containers for disposal.



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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

Keep container tightly closed in a dry and well-ventilated place.

Store in a place accessible by authorized persons only.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage temperature < 50 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory Protection

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

Full mask

Multi-range filter ABEK/P2

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

Safety glasses with side-shields

Hygiene measures

Avoid contact with skin, eyes and clothing.

Keep working clothes separately.

Wash hands before breaks and at the end of workday.

Wash hands immediately after work, if necessary take a shower.

Remove soiled and/or soaked clothing immediately and clean thoroughly before using again.

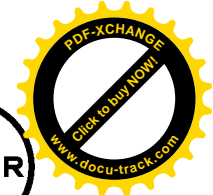
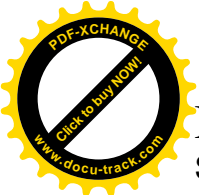
Garments that cannot be cleaned must be destroyed (burnt).

Protective measures

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

complete suit protecting against chemicals

9. PHYSICAL AND CHEMICAL PROPERTIES



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Appearance

Form suspension
Colour white to beige
Odour slight, specific odour

Safety data

pH 6,5 - 8,0 at 100 % (20 °C)
Flash point > 100 °C
Not relevant; aqueous solution
Ignition temperature 485 °C
Density ca. 1,11 g/cm³ at 20 °C
Explosivity Not explosive
92/69/EEC, A.14 / OECD 113

10. STABILITY AND REACTIVITY

Hazardous Reactions No hazardous reactions when stored and handled according to prescribed instructions.

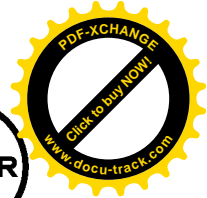
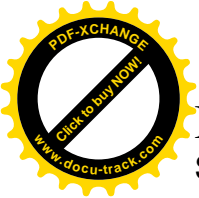
11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (rat) \geq 5.000 mg/kg
Acute Inhalation Toxicity LC50 (rat) 1,511 mg/l
Exposure time: 4 h
Highest attainable concentration.
Acute Dermal Toxicity LD50 (rat) > 2.000 mg/kg
Skin Irritation No skin irritation. (rabbit)
Eye Irritation No eye irritation. (rabbit)
Sensitization sensitizing (guinea pig)
OECD Test Guideline 429, local lymph node assay (LLNA)

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to Fish LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 0,015 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient trifloxystrobin.



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Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 10,56 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient pyrimethanil.
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0,016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient trifloxystrobin.
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 2,9 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient pyrimethanil.
Toxicity to algae	EC50 (<i>Desmodesmus subspicatus</i>) 0,0053 mg/l Growth rate Exposure time: 72 h The value mentioned relates to the active ingredient trifloxystrobin.
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) 1,2 mg/l Growth rate Exposure time: 96 h The value mentioned relates to the active ingredient pyrimethanil.

13. DISPOSAL CONSIDERATIONS

Product

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

ADR/RID/ADNR

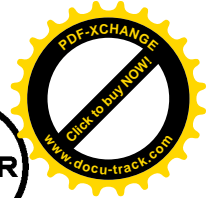
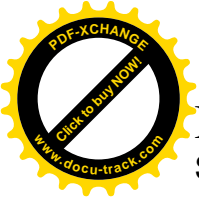
UN-No	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSTROBIN SOLUTION)

IMDG

UN-No	3082
Class	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 SOLUTION)

IATA

UN-No	3082
Class	9



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Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIFLOXYSTROBIN SOLUTION)

15. REGULATORY INFORMATION

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

Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Pyrimethanil
- Trifloxystrobin

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrases(s)

R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(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.

Exceptional labelling

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

Further information

WHO-classification: III (Slightly hazardous)

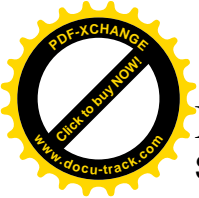
16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

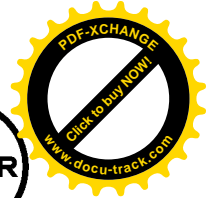
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.



Bayer CropScience

SAFETY DATA SHEET according to EC Directive 2001/58/EC



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