

SAFETY DATA SHEET



Publication date: 15 March 2005 Sheet number: BES/SA 0104 Revised on: 1 March 2014 Revision number: 7

1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **MERIT® 200 SC**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.
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Bayer (office hours only): +27 11 921 5429/5471/5639
Tygerberg Poison Centre: +27 21 931 6129
Griffon Poison Information Centre: +27 82 446 8946

2) HAZARD IDENTIFICATION OF THE PRODUCT

Risk advice to man and the environment: Harmful if swallowed.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3) COMPOSITION / INFORMATION ON THE INGREDIENTS

Chemical nature: Suspension concentrate (=flowable concentrate) (SC)
Imidacloprid 200 g/l

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Imidacloprid	138261-41-3	Xn	R22, R52	18,30

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

4) 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.

Skin contact: Wash off immediately with plenty soap and plenty of water, if available with polyethyleneglycol 400, subsequently rinse with water.

Eye contact: In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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

NOTES TO PHYSICIAN:

Treatment: Treat symptomatically.
Gastric lavage is not normally required. However, 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: Hydrogen chloride (HCl), hydrogen cyanide (hydrocyanic acid), 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.



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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.
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: Clean contaminated floors and objects thoroughly, observing environmental regulations.
Keep in suitable, closed containers for disposal.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

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.

Storage:

Requirements for storage areas and containers: Store in original container.
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: < 40 °C
Do not store at temperatures below -10 °C.

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

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective clothing when mixing and applying: Protective gloves for chemicals, face shield (mixing only), boots and overall.

In all other cases the following recommendations would apply:

Respiratory protection: Not required; except in case of aerosol formation.

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 3 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.
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

Form: Liquid, suspension

Colour: White to light beige

Odour: Weak characteristic smell

pH value: 7,0-8,5 at 100 % (undiluted) (23 °C)

Density: Approx. 1,10 g/cm³ at 20 °C

Solubility in water: Miscible

Viscosity, dynamic: 400-800 mPa.s at 23 °C



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Velocity gradient 7,5/s

Flash point: > 100 °C

10) STABILITY AND REACTIVITY

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

11) TOXICOLOGICAL INFORMATION

Acute toxicity:
LD₅₀ oral, rat: > 1218 mg/kg
LD₅₀ dermal, rat: > 4000 mg/kg
LC₅₀ inhalation, rat: > 2,238 mg/ℓ, aerosol, 4 h of exposure (Bayer)
Highest technical producible concentration).

Skin irritation, rabbit: Non-irritant (Bayer)

Eye irritation, rabbit : Non-irritant (Bayer)

Skin sensitisation, guinea pig: Non-sensitizing
OECD Test Guideline 406, Buehler test

12) ECOLOGICAL INFORMATION

Fish toxicity:
LC₅₀: > 535 mg/ℓ (96 h), Rainbow trout (*Oncorhynchus mykiss*)

Toxicity for Daphnia:
EC₅₀: >535 mg/ℓ (24 h), Water flea (*Daphnia magna*)
EC₅₀: 0,0552 mg/ℓ (24 h), Non-biting midge (*Chironomus riparius*) The value relates to the active ingredient.

Toxicity for algae:
Growth rate:
IC₅₀: > 1000 mg/ℓ (72 h), Green algae (*Desmodesmus subspicatus*)

Toxicity to bacteria :
EC₅₀: >10000 mg/ℓ Activated sludge (OECD 209)

13) DISPOSAL CONSIDERATIONS

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.

14) TRANSPORT INFORMATION

UN Number: 3082

Class: 9

IMDG: -

Ems: F-A, S-F

MFAG: -

Subsidiary risk: •

Packing group: III

Declaration for land shipment: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

Declaration for sea shipment: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

Declaration for shipment by air: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

Marine pollutant,

15) REGULATORY INFORMATION

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



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Classification: Labelling according to EC Directives

Hazardous components which must be listed on the label: Imidacloprid,

Symbol(s):

Xn: Harmful

N: Dangerous for the environment.

R-phrases(s):

R22: Harmful if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s):

S35: This material and its container must be disposed of in a safe way.

S57: Use appropriate container to avoid environmental contamination.

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

WHO Classification: II (Moderately hazardous)

16) OTHER INFORMATION

Text of R-phrases as mentioned in Section 3:

R22: Harmful if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the product's properties.

Consult the label for the directions for use.

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.
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