

SAFETY DATA SHEET



Publication date: March 1994 Sheet number: BES/SA0030 Revised on: 24 May 2010 Revision number: 7

1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Commercial name: **DELATABAK[®] Tobacco Bale and Store Treatment**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.
Reg. No. 1968/011192/07
P.O. Box 143, Isando 1600
SOUTH AFRICA

Telephone: +27 11 365 8600
+27 11 921 5911

Fax: +27 11 921 5754

Responsible department: Marketing and Technical
+27 11 921 5310/5663/5471/5639
magdel.mellet@bayercropscience.com

In case of poisoning emergencies:
Bayer (office hours only): +27 11 921 5310/5663/5471/5639
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: 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)
Deltamethrin 50 g/l

Hazardous components:

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Deltamethrin	52918-63-5 258-256-6	T, N	R23/25, R50/53	4,70

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.

Skin contact: In case of skin contact, immediately wash with plenty of water and soap for at least 15 minutes. After skin contact: Apply Vitamin E cream or a simple body milk. If symptoms persist, call a physician.

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: Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

Inhalation: Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

NOTES TO PHYSICIAN:

Symptoms: Local: Skin and eye paraesthesia which may be severe, usually transient with resolution within 24 hours. Eye and mucous membrane irritation, cough.
Systemic: Discomfort in the chest, tachycardia, hypotension, nausea, abdominal pain, diarrhea, vomiting, dizziness, blurred vision, headache, anorexia, somnolence, coma, convulsions, tremors, prostration.

Risks: This product contains a pyrethroid.
Must NOT be confused with organophosphorus compounds!

Treatment: Local: Initial treatment: symptomatic. After eye contact: Instillation of local anaesthetic drops e.g. 1 % Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.
Systemic: Initial treatment: symptomatic. Monitoring of respiratory and cardiac functions. In case of ingestion perform

SAFETY DATA SHEET



gastric lavage, then administer charcoal (carbo medicinalis) and sodium sulfate.
 Anti-convulsive therapy: Diazepam i.v. is the remedy of choice; barbiturates, e.g. phenobarbital and calcium gluconate, may also be used.
 In case of shortness of breath, give oxygen.
 Contraindication: Derivatives of adrenaline.
 Contraindication: Atropine.
 Spontaneous recovery.
 There is no specific antidote.

5) FIRE FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
 Extinguishing media which should not be used for safety reasons: High volume water jet.
 Specific hazards during fire fighting: Dangerous gases are evolved in the event of a fire.
 Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.
 Further information: Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
 Whenever possible, contain fire-fighting water by diking area with sand or earth.

6) ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep people away from and upwind of spill/leak.
 Avoid contact with spilled product or contaminated surfaces.
 When dealing with a spillage do not eat, drink or smoke.

Environmental precautions: Do not allow to get into the drains / surface water / ground water.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
 Keep in suitable, closed containers for disposal.
 Clean floors and contaminated objects with plenty of water.

Additional advice: Information regarding safe handling, see section 7.
 Information regarding personal protective equipment, see section 8.
 Information regarding waste disposal, see section 13.
 Check also for any local site procedures.

7) HANDLING AND STORAGE

Handling: No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
 Use only in area provided with appropriate exhaust ventilation.

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

Storage: Store in a place accessible by authorized persons only.
 Keep away from direct sunlight.
 Keep containers tightly closed in a dry, cool and well-ventilated place.

Suitable materials: HDPE (high density polyethylene).

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0,02 mg/m ³		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Personal protection during normal application:

Respiratory protection: Face mask.

Hand protection: Chemical resistant gloves
 PVC gloves
 Nitrile gloves

Eye protection: Chemical resistant goggles / face shield must be worn.

SAFETY DATA SHEET



Skin and body protection: Light protective clothing, PVC
PVC boots

Personal protection during manufacture/formulating:

Respiratory protection: No personal respiratory protective equipment normally required. 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: When using, do not eat, drink or smoke.
Remove soiled and / or soaked clothing immediately.
Clean hands and face at work intervals and after work. If necessary take a shower.

9) PHYSICAL AND CHEMICAL PROPERTIES

Description: An opaque, white, moderately viscous suspension concentrate.

Odour: Odourless

pH: 3-7 at 100 % (23 °C)

Solubility: Product is miscible with water.

Flash point: > 100 °C

Density: Approx. 1.054 g/cm³ at 20 °C

10) STABILITY AND REACTIVITY

Conditions to avoid: Extremes of temperature and direct sunlight.

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

Stable under recommended storage conditions.

11) TOXICOLOGICAL INFORMATION

Acute toxicity:

LD₅₀ oral, rat: > 15000 mg/kg*

LD₅₀ dermal, rat: > 10000 mg/kg*

LD₅₀ inhalation: > 2.30 mg/l*
Exposure time 4 h.
Highest attainable concentration.
Determined in the form of a respirable aerosol.

Skin irritation, rabbit: Not an irritant*

Eye irritation, rabbit: Not an irritant*

*Test conducted with a similar product.

Skin sensitization, guinea pig: No skin sensitization potential.

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, the sensations cause no lesions and are of a transitory nature (max. 24 hrs).

12) ECOLOGICAL INFORMATION

Fish toxicity:

LC₅₀: 0.00091 mg/l (96 h): Rainbow trout (*Oncorhynchus mykiss*)

Toxicity to Daphnia:

EC₅₀: 0.00056 mg/l (48 h): Water flea (*Daphnia magna*)

SAFETY DATA SHEET



Toxicity to algae:
EC₅₀: > 9.1 mg/l (72 h)

Toxicity to birds:
LD₅₀: > 2250 mg/l Bobwhite quail
LD₅₀: > 4640 mg/l Mallard duck

Bioaccumulation: Bluegill sunfish, bioconcentration factor (BCF): 1400

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.

Contaminated packaging: Triple rinse containers.
Do not re-use empty containers.
Not completely emptied packaging should be disposed of as hazardous waste.

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.
(Deltamethrin solution)

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

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

15) REGULATORY INFORMATION

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

Classification: Hazard warning labelling compulsory

Hazardous components which must be listed on the label: Deltamethrin.

Symbol(s):
N: Dangerous for the environment

R-phrase(s):
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.
S57: Use appropriate container to avoid environmental contamination.

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

WHO Classification: III (Slightly hazardous)

16) OTHER INFORMATION

Text of R-phrases mentioned in Section 3:
R23/25: Toxic by inhalation and if swallowed.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

SAFETY DATA SHEET



Consult the label for the instructions 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.

If the logo in this document is not in colour, this document is a photocopy and could be out of date.