

SAFETY DATA SHEET



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1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Trade name: **Fludora® Fusion**

Usage: Insecticide

Company identification: Bayer (Pty.) Ltd.
Reg. No. 1968/011192/07
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SOUTH AFRICA

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Responsible department: Product Development and Regulatory Affairs
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In case of poisoning emergencies:
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: May cause allergic reaction. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3) COMPOSITION / INFORMATION ON THE INGREDIENTS

Wettable powder- Soluble Bag (WP-SB) contains: Clothianidin 50% + Deltamethrin 6,25% WP-SB

Hazardous components:

Chemical name	CAS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Clothianidin	210880-92-5	Xn, N	R22, R50, R50/53	50,0
Deltamethrin	52918-63-5 258-256-6	T,N	R22, R34, R50, R50/53	6,25
Methylene-linked condensation product of arylsulphonic, sodium salts	90387-57-8 291-331-1	N	R50/53	> 1 – < 25
Citric acid	77-92-9 201-069-1	Xn	R41	<= 1
Alkylaryl sulfonate	91078-64-7 293-346-9	Xn, N	R22, R23/25, R41, R50/53	> 1 – < 10

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.

Inhalation: Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact: Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. 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. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists

Ingestion: Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. Call a physician or poison control center immediately

NOTES TO PHYSICIAN:

Symptoms: Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye

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and mucous membrane irritation, Cough, Sneezing

Symptoms: Systemic: Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy

Risks: This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

Treatment

Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae.

5) FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, Carbon dioxide (CO₂), Foam, Sand

Extinguishing media which should not be used for safety reasons: High volume water jet.

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.
Remove all sources of ignition.

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

Methods for cleaning up: Use mechanical handling equipment.
Clean contaminated floors and objects thoroughly, observing environmental regulations.
Keep in suitable, closed containers for disposal.

Additional advice: Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13

7) HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation. Avoid dust formation

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

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

Components	CAS-No.	Control parameters	Update	Basis
Clothianidin	210880-92-5	2,8 mg/m ³ (TWA)		OES BCS*
Deltamethrin	52918-63-5	0,02 mg/m ³ (TWA)		OES BCS*

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

Respiratory protection: If product is handled while not enclosed, and if contact may occur:
Wear respirator with a particle filter mask (protection factor 10) conforming to European Norm EN149FFP2 or EN140P2 or equivalent.
Respiratory protection should only be used to control residual risk of short duration

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	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	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
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).
9) PHYSICAL AND CHEMICAL PROPERTIES	
Form:	WP-SB: powder in water soluble film bags
Colour:	Beige
Odour:	Weak, characteristic
pH:	3 - 6 at 1 % (23 °C) (deionized water)
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 toxicity:	
LD ₅₀ oral, rat:	> 2.000 mg/kg
LD ₅₀ acute dermal, rat:	> 2.000 mg/kg
Skin irritation:	No skin irritation
Skin sensitisation:	Non-sensitizing
Eye irritation:	Slight irritant effect
12) ECOLOGICAL INFORMATION	
Toxicity to fish:	LC ₅₀ > 104, 2 mg/l Rainbow trout (<i>Oncorhynchus mykiss</i>). Exposure time: 96 h
Toxicity to daphnia:	EC ₅₀ > 40 mg/l Water Flea (<i>Daphnia magna</i>). Exposure time: 48 h
Toxicity to algae:	EC ₅₀ > 120 mg/l Algae. Exposure time: 72 h
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:	Not completely emptied packagings should be disposed of as hazardous waste
14) TRANSPORT INFORMATION	
UN Number:	3077
Class:	9
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CLOTHIANIDIN, DELTAMETHRIN MIXTURE)
Ems:	F-A, S-F

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MFAG: -

Subsidiary risk: •

Packing group: III

Declaration for land shipment: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Clothianidin , Deltamethrin mixture)

Declaration for sea shipment: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Clothianidin, Deltamethrin mixture)

Declaration for shipment by air: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Clothianidin, Deltamethrin mixture)

Marine pollutant. YES

15) REGULATORY INFORMATION

Classification: Hazard warning labelling compulsory.

Hazardous components which must be listed on the label: Deltamethrin

Symbol(s):

N: Dangerous for the environment.

R-phrases(s):

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: III (Slightly hazardous)

16) OTHER INFORMATION

Text of R-phrases mentioned in Section 3:

R22: Harmful if swallowed

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R23/25: Toxic by inhalation and if swallowed.

R34: Causes burns.

R41: Risk of serious damage to eyes.

R50: Very toxic to aquatic organisms

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

Text of the hazard statements mentioned in Section 3:

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects

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.

Consult the label for directions for use.

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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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