

Bayer CropScience

**CRACKDOWN**

Version 1

Revision Date 03.09.2002

102000002473

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

Product Information

Trade name : CRACKDOWN
 Product Code : AE F032640 00 SC01 A4
 Product Code : CP505
 Specification : 21261
 Company : Bayer CropScience (M) Sdn Bhd
 12th Floor, Wisma Damansara
 Jalan Semantan, 50490
 Kuala Lumpur, Malaysia
 Emergency telephone Number : +6(03)2723 0888
 Telefax : +6(03)2094 4230

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Suspension concentrate (=flowable concentrate) (SC), contains:
 Deltamethrin 10 g/l

Hazardous Components

Chemical Name	CAS-No.	Symbol(s)	R-phrases	Concentration (%)
Deltamethrin	52918-63-5	T, N	R23/25 R50/53	0,99
1,2 Propanediol	57-55-6			>5,00 - <25,00
Formaldehyde	50 00 0	T	R23/24/25 R34 R40 R43	>0,10 - <0,50

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES

General advice : Remove contaminated, soaked clothing immediately and Dispose of safely.
 Inhalation : Move the patient to fresh air and keep at rest. If symptoms persists, call a physician.



CRACKDOWN

Version: 1

Revision Date: 03.09.2002

102000002473

- Skin contact** : Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or simple toilet milks. Seek medical aid if at all worried.
- Eye contact** : In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
- Ingestion** : Do not induce vomiting. Wash out mouth with water. Keep at rest. Obtain medical attention.

Notes to physician

- Symptoms** : Local. After skin contact: Paresthesia (local). May cause skin and eye irritation. Inhalation may provoke the following symptoms: irritation.
- Symptoms** : Systemic: Excitement, Gastrointestinal discomfort, Tremor, Dizziness, headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (very high doses).
- Risks** : This product/preparation contains a pyrethroid. Must NOT be confused with organophosphorus compounds!
- Treatment** : **Local treatment:**
Initial treatment should be symptomatic and supportive.
After eye contact: Instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.
- Treatment** : **Systemic treatment:**
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.
Monitoring of respiratory and cardiac functions.
ECG - control (Electrocardiogram)
Check for pulmonary oedema in event of inhalation.
Keep respiratory passages free; administer artificial respiration as necessary.
Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.
There is no antidote.
Contraindication: atropine
Contraindications: derivatives of adrenaline
Recovery: Spontaneous.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which must not be used for safety reasons** : Product itself is non-combustible; fire extinguishing measures to suit surroundings.

Bayer CropScience

**CRACKDOWN**

Version 1

Revision Date 03.09.2002

102000002473

- Specific hazards during fire fighting : In case of fire the evolution of dangerous gases is possible
- Special protective equipment for fire fighters : In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.
- 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 bunding area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.
- Environmental precautions : Keep people and animals away. Do not discharge into the drains/surface water/groundwater.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.
- 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**

- Advice on safe handling : No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Provide good ventilation of working area (local exhaust ventilation if necessary)
- Advice on protection against fire and explosion : No special precautions required.

Storage

- Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Store in a place accessible by authorized persons only.
- Further information on storage conditions : Keep away from direct sunlight. Protect from frost.



CRACKDOWN

Version 1

Revision Date 03.09.2002

102000002473

- Storage temperature : 0 - 30 °C
- Suitable materials : Keep in original packaging, tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Chemical resistant gloves
PVC gloves
nitrile gloves
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Light protective clothing, PVC
PVC boots
- Hygiene measures : When using, do not eat, drink or smoke.
Remove soaked clothing immediately.
Remove soiled clothing immediately.
Clean hands and face at work intervals and after work.
Work in an adequately ventilated room.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : suspension
- Colour : white
- Odour : very faint, of organic solvents

Safety data

- pH : < 5,0
Note: Determined in the undiluted form
- Density : ca. 1,01 g/cm³ at 20 °C
- Partition coefficient (n-octanol/water) : log Pow: 4,6
Note: The value mentioned relates to the active ingredient Deltamethrin.
- Other information : The product is not combustible.

10. STABILITY AND REACTIVITY

- Conditions to avoid : Note: Extremes of temperature and direct sunlight.



CRACKDOWN

Version 1

Revision Date 03.09.2002

102000002473

Materials to avoid	: None
Hazardous reactions	: No hazardous reactions when stored and handled according to prescribed instructions. Note: Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 (rat) > 10.000 mg/kg
Acute dermal toxicity	: LD50 (rat) > 10.000 mg/kg
Skin irritation	: rabbit Result: No skin irritation
Eye irritation	: rabbit Result: slight irritant effect - does not require labelling

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	: LC50: 0,00026 mg/l Rainbow trout Exposure time: 96 h Test substance: The value mentioned relates to to the active ingredient Deltamethrin.
Toxicity to daphnia	: EC50: 0,00011 mg/l Water flea (Daphnia magna) Exposure time: 48 h Test substance: The value mentioned relates to to the active ingredient Deltamethrin.
Toxicity to algae	: LC50: > 9,1 mg/l Algae Exposure time: 72 h Test substance: The value mentioned relates to to the active ingredient Deltamethrin.
Toxicity to other organisms	: LD50: > 2.250 mg/kg Bobwhite quail Test substance: The value mentioned relates to to the active ingredient Deltamethrin.
Toxicity to other organisms	: LD50: > 4.640 mg/kg Mallard duck Test substance: The value mentioned relates to to the active ingredient Deltamethrin.

Bayer CropScience



CRACKDOWN

Version 1

Revision Date 03.09.2002

102000002473

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
- Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORT INFORMATION

- ADR : Not dangerous goods
- ADNR : Not dangerous goods
- IMDG : Not dangerous goods
- IATA : Not dangerous goods

15. REGULATORY INFORMATION

The product is classified and labelled in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Hazardous components which must be listed on the label

- Deltamethrin
- Formaldehyde

R-phrase(s) : R52/53 Harmful 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.
S67 Use appropriate containment to avoid environmental contamination.

Exceptional labelling of special preparations : Contains formaldehyde. May produce an allergic reaction.

Legislation on the control of major-accident hazards involving dangerous substances : Rubrique n°1155. Dépôts de produits agropharmaceutiques.

Occupational diseases : Tableau n°43 : Affections professionnelles provoquées par l'aldéhyde formique et ses polymères.



CRACKDOWN

Version 7

Revision Date 03/09/2002

102000002473

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

- | | |
|-----------|--|
| 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. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R34 | Causes burns. |
| R40 | Possible risks of irreversible effects. |
| R43 | May cause sensitization by skin contact. |

The information provided in this safety data sheet has been provided according the requirements from the French modified decree "arrêté du 5 janvier 1993". This sheet complements the technical sheet but does not replace it. The information contained in this sheet is based on knowledge of the product at the date of publication and is given in good faith. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The user is fully responsible for taking all the necessary precautions whilst using the product. The aim of the statutory regulations indicated is to help the user to fulfil his obligations regarding the use of hazardous products. This list should not be considered as exhaustive. It does not exonerate the user from fulfilling other existing legal obligations in addition to those mentioned, relating to the use and storage of the product. This remains solely the responsibility of the user.

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