

SAFETY DATA SHEET

CRACKDOWN

D137 3.00 GB Current 12.01.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	CRACKDOWN
Product (Specification) Code	D137
Aventis CropScience Product Code	AE F032640 00 SC01 A4
Usage	Suspension Concentrate (water based) Insecticide
Appearance	Flowable white liquid suspension
Manufacturer/Supplier	Aventis CropScience UK Limited
Address	Hauxton Cambridge CB2 5HU
Phone Number	01277 301125
Fax Number	01223 872142
Emergency Phone Number	0800 220876 (24 hr UK) +44 1603 242424 (24 hr Overseas)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components in Product for EC

Component Name	CAS No	Conc. %w/w	R Phrases	Classification
1. Deltamethrin	52918-63-5	1.00	R25, R20, R50/53	T
2. Formaldehyde	50-00-0	0.10 < 1.00	R23/24/25, R34, R40, R43	T

3. HAZARDS IDENTIFICATION

Main Hazards	Not classified as hazardous.
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4. FIRST-AID MEASURES

Eyes	Rinse immediately with clean water for at least 15 minutes and obtain medical aid.
Skin	Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.
Ingestion	Wash out mouth with water. Induce vomiting only if medical treatment is not readily available, the patient is fully conscious and the time since ingestion is less than 1 hour. Keep patient at rest and seek medical advice.
Inhalation	If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.
Advice to Physicians	This material contains a pyrethroid; it is NOT an organophosphorus compound and must NOT be confused with such compounds. Brief Summary of Symptoms and Signs: Local Contamination: Causes skin and eye paraesthesiae which may be severe, but this is usually transient with resolution within 24 hours. Inhalation may cause irritation of the nose, throat and respiratory tract. Systemic poisoning causes dizziness, headache, nausea, vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (at very high doses). Treatment: Local Contamination: Symptomatic after decontamination. For skin contamination apply Vitamin E cream or simple toilet milks. For eye contamination consider instillation of local anaesthetic (e.g. 1 % Amethocaine Hydrochloride) eye drops. Also, give Analgesics as necessary. Systemic Poisoning: Carry out endotracheal intubation followed by gastric lavage, charcoal administration and artificial respiration (*as necessary). Monitor the cardiac and respiratory function with particular reference to E.C.G. Check for pulmonary oedema in the event of inhalation. Anticonvulsant Therapy: Diazepam I.V. (repeated as necessary).

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4. FIRST-AID MEASURES (continued)

Contraindications: Adrenergic compounds , Atropine
Recovery is normally spontaneous.
Further advice is available from;
Aventis CropScience UK Limited via the emergency telephone number above or
from the nearest Poisons Unit.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	Product is not combustible. If product is involved in a fire, use waterspray, foam, dry powder, carbon dioxide or sand.
Unsuitable Extinguishing Media	None.
Special Exposure Hazards	May give off toxic fumes if heated to decomposition.
Protective Equipment for Fire-Fighting	Do not breathe fumes. Wear self contained breathing apparatus.
Fire Fighting Guidance	If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible , contain fire-fighting water by bunding area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in Section 8.
Environmental Precautions	Keep people and animals away. Prevent entry into drains, sewers and watercourses. In the UK if spillage enters drains leading to sewage works inform local water company plc immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060). Overseas, inform the appropriate authority immediately.
Spillages	Contain/absorb spillage in sand/earth or in a suitable inert material. Transfer collected material to heavy duty plastic drums and keep safe for disposal.
Note	Check also for any local site procedures in force.

7. HANDLING AND STORAGE

Handling	No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Section 8 if exposure to product is possible. Wash thoroughly with soap and water after handling and before eating, drinking or smoking.
Storage	Store in original packs/containers in a dry secure area designated for pesticides with access for authorised staff only. Store away from seeds, fertilizers and animal feedstuffs.
Technical Storage Measures	Protect from frost.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
1. Product	None assigned.
Engineering Control Measures	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
Respiratory Protection	None required when handling the product.
Hand Protection	Wear chemical resistant PVC or nitrile gloves.
Eye Protection	Wear safety goggles with unperforated side shield or goggles (conforming to BS EN 166 or BS 2092 for older goggles).
Other	Wear PVC or chemical resistant disposable overalls and PVC boots.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Other Information	If feasible, decontaminate protective clothing before removal. Where decontamination is not feasible (before or after removal) dispose of as contaminated waste.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	White.
Odour	Characteristic.
pH	No data.
Boiling Range/Point (deg C)	Not determined.
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Not applicable
Explosion Limits (%)	Not applicable.
Solubility in Water	Miscible.
Vapour Pressure	Not determined.
Density (g/ml)	1.01 at 20 °C.
Flammability	Not combustible
Auto-flammability (deg C)	Not applicable
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	As for water
Dust Explosion Data	Not applicable
Summary/Other Data	A non-combustible liquid.

10. STABILITY AND REACTIVITY

Stability	Stable for three years when stored at temperatures not exceeding 35 deg. C.
Conditions to Avoid	Frost
Materials to Avoid	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Inhalation	Probably of low inhalational toxicity.
Skin and Eye Contact	Low toxicity; rat dermal LD50 > 10000 mg/kg. Slight and reversible irritant to rabbit eyes (labelling not indicated).
Ingestion	Low toxicity; rat oral LD50 > 10000 mg/kg.
Carcinogenicity	Data given in this section are for the active ingredient: No carcinogenic effects in rats or mice. Inadequate evidence of carcinogenic effects in humans and experimental animals.
Genotoxicity	Data given in this section are for the active ingredient: No mutagenic effects.
Reproductive Toxicity	Data given in this section are for the active ingredient: No teratogenic effects.

12. ECOLOGICAL INFORMATION

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12. ECOLOGICAL INFORMATION (continued)

Mobility	Data given in this section are for the active ingredient: Strongly adsorbed by soil colloids with no risk of leaching.
Persistence/Degradability	Data given in this section are for the active ingredient: Soil DT50 1 to 2 weeks (undergoes microbial degradation). Water DT50 5 days (pH 9.0). Photolysis DT50 9 days.
Bio-accumulation	Data given in this section are for the active ingredient: Koc = 460000 to 1630000. Kd = 3790 to 30000.
Aquatic Toxicity	Data given in this section are for the active ingredient: 96 hr LC50 rainbow trout 0.91 microgram/l , bluegill sunfish 1.4 microgram/l , 48 hr EC50 daphnia 3.5 microgram/l , 72 hr EbC50 algae > 9.1 mg/l (under laboratory conditions).
Other Toxicity	Data given in this section are for the active ingredient: Acute oral LD50 duck > 5000 mg/kg, quail > 10000 mg/kg. Bees acute LD50 50 ng/bee . LC50 (14 days) earthworms 28.57 mg/kg soil.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Disposal of product would usually be by incineration in an appropriately licensed commercial incinerator. Small quantities may be accepted in licensed landfill sites. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK). In the UK disposal arrangements should be in accordance with the Duty of Care Regulations and, where applicable, with the Special Waste Regulations.
Container Disposal	Lightly contaminated packaging may be acceptable for landfill, otherwise incineration will be required. See above for advice.

14. TRANSPORT INFORMATION

UN Number	3082
UN Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s. (contains deltamethrin 1.0 %)
UN Class	9
UN Packaging Group	III
ADR/RID - Description	Not dangerous for transport
CDG(CPL) - Description	Not dangerous for transport
IMDG - Proper Shipping Name	As for UN.
IMDG - Ems Number	None.
IMDG - MFAF Table Number	None.
ICAO - Proper Shipping Name	As for UN.

15. REGULATORY INFORMATION

Risk symbol	<input type="checkbox"/> None
Hazard Classification	Not classified
Designated Name	Crackdown (contains deltamethrin 1.0 % and formaldehyde)
R phrases	Not classified
S phrases	36/37-Wear suitable protective clothing and gloves. 45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Control of Pesticides Regulations 1986: Precautions	The following precautions appear in the "PRECAUTIONS" section of the label/ leaflet;

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15. REGULATORY INFORMATION (continued)

WASH HANDS AND EXPOSED SKIN AFTER USE.
WASH SPLASHES from skin or eyes immediately with plenty of water.
KEEP OUT OF REACH OF CHILDREN.
KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

ON BOARD SHIP

In compliance with The Merchant Shipping (Medical Scales) Regulations 1974.
Protect food preparing surfaces or equipment and eating utensils from contamination during application.

AVOID EXCESSIVE INHALATION OF SPRAY.

KEEP IN A COOL PLACE away from crew and passenger accommodation and edible cargo.

KEEP OUT OF REACH OF CHILDREN.

The following precautions appear in the "STATUTORY CONDITIONS RELATING TO USE" box of the label/leaflet;
FOR USE ONLY AS AN INSECTICIDE.

FOR PROFESSIONAL USE in public hygiene/nuisance and food storage practice.

The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.

FOR USE ONLY BY PROFESSIONAL OPERATORS.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SYNTHETIC RUBBER/PVC GLOVES and EYE PROTECTION (FACESHIELD) when diluting and using.

DO NOT BREATHE SPRAY MIST. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS (G): "Respiratory Protective Equipment - a practical guide for users").

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRY REGULARLY.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

DO NOT APPLY TO SURFACES on which food is stored, prepared or eaten.
COVER FOOD, FOOD PREPARING EQUIPMENT AND EATING UTENSILS before application.

REMOVE OR COVER ALL FOODSTUFFS before application.

UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS UNTIL SURFACES ARE DRY.

EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE. Do not contaminate watercourses or ground.

Remove or cover fish tanks and bowls before application.

READ ALL PRECAUTIONS BEFORE USE.

16. OTHER INFORMATION

MSDS first issued 24 July 1998

MSDS data revised 12 January 2000

Footnote

This Safety Data Sheet was prepared in compliance with Commission Directive 93/112/EC, 67/548/EEC and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

Disclaimer

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the substance or product for which purposes the substance or product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force

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16. OTHER INFORMATION (continued)

or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.
