

SAFETY DATA SHEET CRACKDOWN RAPIDE

D397 2.00 GB Current 12.01.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	CRACKDOWN RAPIDE
Product (Specification) Code	D397
Aventis CropScience Product Code	AE F032640 11 SE04 A1
Usage	Suspo-emulsion (water based) Insecticide
Appearance	Off-white liquid
Manufacturer/Supplier	Bayer Environmental Science
Address	Durkan House, 214-224 High Street Waltham Cross, Hertfordshire EN8 7DP
Phone Number	01992 784270
Fax Number	01992 784276
Emergency Phone Number	0800 220876 (24 hr UK) +44 1223 870312 (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	2.50	R25, R20, R50/53	T
2. Esbiol	28434-00-6	2.10	R20/22, R50/53	Xn, N
3. Aliphatic, cycloparaffinic hydrocarbon	64742-47-8	1.00 < 5.00	R65	Xn

3. HAZARDS IDENTIFICATION

Main Hazards	Harmful by inhalation.
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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. Do not induce vomiting. 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	<p>This material contains a pyrethroid; it is NOT an organophosphorus compound and must NOT be confused with such compounds.</p> <p>Brief Summary of Symptoms and Signs:</p> <p>Local Contamination: Causes skin and eye paraesthesiae which may be severe, but this is usually transient with resolution within 24 hours.</p> <p>Systemic poisoning causes dizziness, headache, nausea, vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (at very high doses).</p> <p>Treatment:</p> <p>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.</p> <p>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.</p> <p>Anticonvulsant Therapy: Diazepam I.V. (repeated as necessary).</p> <p>Contraindications: Adrenergic compounds, Atropine</p> <p>Recovery is normally spontaneous.</p>

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4. FIRST-AID MEASURES (continued)

Further advice is available from;
Bayer Environmental Science 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	No special measures required.

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	Wear respirator conforming to EN 140 with AI filters; follow respirator manufacturer's recommendations or instructions.
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.
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	Off-white.
Odour	Faint.
pH	6.2
Boiling Range/Point (deg C)	Not determined.
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Non-combustible.
Explosion Limits (%)	Not applicable
Solubility in Water	Emulsifies.
Vapour Pressure	Not determined.
Density (g/ml)	1.02 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 at ambient conditions.
Conditions to Avoid	None.
Materials to Avoid	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Inhalation	Harmful by inhalation; rat inhalational LC50 > 4.7 mg/l (4 hr).
Skin and Eye Contact	Low toxicity; rat dermal LD50 > 5000 mg/kg. Not irritating to rabbit eyes or skin.
Ingestion	Low toxicity; rat oral LD50 > 5000 mg/kg.
Carcinogenicity	Deltamethrin; No carcinogenic effects in rats or mice. Inadequate evidence of carcinogenic effects in humans and experimental animals. EsbioI; No carcinogenic effects in rats or mice.
Genotoxicity	Deltamethrin; No mutagenic effects. EsbioI; Negative in a battery of genotoxicity tests.
Reproductive Toxicity	Deltamethrin; No teratogenic effects. EsbioI; Not teratogenic in the rat or rabbit, with no effects on fertility or reproductive performance.

12. ECOLOGICAL INFORMATION

Mobility	Deltamethrin; Strongly adsorbed by soil colloids with no risk of leaching. EsbioI; No data.
Persistence/Degradability	Deltamethrin; Soil DT50 1 to 2 weeks (undergoes microbial degradation). Water DT50 5 days (pH 9.0). Photolysis DT50 9 days. EsbioI; No data.
Bio-accumulation	Deltamethrin; Koc = 460000 to 1630000. Kd = 3790 to 30000. Log Pow = 5.43. EsbioI; Log P = 4.7.

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12. ECOLOGICAL INFORMATION (continued)

Aquatic Toxicity	Deltamethrin; 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). 96 hr LC50 rainbow trout 0.0105 mg/l, bluegill sunfish 0.0332 mg/l, fathead minnow 0.053 mg/l, 48 hr EC50 daphnia 0.016 mg/l, 72 hr EbC50 algae 3.9 mg/l.
Other Toxicity	Deltamethrin; Acute oral LD50 duck > 5000 mg/kg, quail > 10000 mg/kg. Bees acute LD50 50 ng/bee earthworms LC50 (14 days) 28.57 mg/kg soil. Esbiol; No data.


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 2.5 %)
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 - MFAG Table Number	None.
ICAO - Proper Shipping Name	As for UN.

15. REGULATORY INFORMATION

Risk symbol	 Harmful
Hazard Classification	Xn - Harmful
Designated Name	Crackdown Rapide (contains deltamethrin 25 g/l and esbiol 20 g/l)
R phrases	20-Harmful by inhalation.
S phrases	23-Do not breathe fumes/vapour/spray. 36/37/39-Wear suitable protective clothing, gloves and eye/face protection. 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	FOR PROFESSIONAL USE in public hygiene/nuisance and food handling storage practice. FOR FLYING INSECTS (WHEN RESTING): Take 40 ml of product and make up to 5 Litres with water then apply 1 Litre of diluted product per 20 square metres of surface. FOR CRAWLING INSECTS: Take 50 ml of product and make up to 5 Litres with water then apply 1 litre of diluted product per 20 square metres of surface.

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15. REGULATORY INFORMATION (continued)

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. Otherwise wear respiratory protective

equipment (see HSE Guidance Booklet HS (G) 53: "Respiratory Protective Equipment - a practical guide for users") when igniting a series of generators.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRER REGULARLY.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

TAKE OFF IMMEDIATELY all contaminated clothing.

VACATE TREATMENT AREA before application.

COVER FOOD, FOOD PREPARING EQUIPMENT AND EATING UTENSILS before application.

DO NOT APPLY TO SURFACES on which food is stored, prepared or eaten.

COVER WATER STORAGE TANKS before application.

DO NOT APPLY TO CLOTHING OR BEDDING.

DO NOT APPLY DIRECTLY TO ANIMALS.

REMOVE OR COVER ALL FOODSTUFFS before application.

Remove or cover fish tanks and bowls before application.

EXCLUDE ALL PERSONS AND ANIMALS DURING TREATMENT.

DO NOT APPLY DIRECTLY TO ANIMALS.

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, with the product or used container.

DILUTED INSECTICIDE SHOULD NEVER BE KEPT; a fresh dilution should be prepared as necessary.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WASH SPLASHES from skin or eyes immediately with plenty of water.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately (show label where possible)

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.

IN CASE OF SKIN CONTAMINATION wash immediately with soap and water.

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

KEEP OUT OF REACH OF CHILDREN.

16. OTHER INFORMATION

MSDS first issued

8 December 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

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16. OTHER INFORMATION (continued)

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 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.
