

**MATERIAL SAFETY DATA SHEET**  
Emergency contact number: +27 11 365-8639



Publication date: March 1994	Sheet number: BES/SA 0094	Revised on: 30 May 2007	Revision number: 6
<b>1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION</b>			
Commercial name:	<b>SUPER CRACKDOWN®</b>		
Company identification:	Bayer (Pty.) Ltd. Reg. No. 1968/011192/07 P.O. Box 143, Isando 1600 SOUTH AFRICA		
Company contact numbers:	+27 11 365 8600 +27 11 921 5911		
Tygerberg Poison Centre:	+27 21 931 6129		
<b>2) COMPOSITION / INFORMATION ON THE INGREDIENTS</b>			
Cas Reg No: Deltamethrin: 52918-63-5			
Product is chemically a pyrethroid insecticide based on 25 g//active deltamethrin. An opaque white, moderately viscous liquid used as an insecticide.			
	GCPF Code:	SC	
<b>3) HAZARD IDENTIFICATION OF THE PRODUCT</b>			
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
<b>4) FIRST AID MEASURES</b>			
General advice:	Remove contaminated, soaked clothing immediately and dispose of safely.		
Inhalation:	Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.		
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.		
Notes to physician:			
Symptoms:	Local: After skin contact: Paresthesia (local). May cause skin and eye irritation. Inhalation may provoke irritation. 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! Risk of product entering the lungs on vomiting after ingestion.		
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. 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		
<b>5) FIRE FIGHTING MEASURES</b>			
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.		
Specific hazards during fire fighting:	In case of fire the evolution of dangerous gases is possible.		

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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.  
If spillage enters drains leading to sewage works inform local water company immediately.  
If spillage enters rivers or watercourses, inform the relevant authorities.

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).

Protective clothing during normal use: Wear protective clothing when handling the concentrate or diluted solutions.  
Wear a face shield when applying the diluted washes to surfaces or when working in spray mist.  
Avoid skin contact and wash splashes from skin or eyes immediately.

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.  
Store away from food and feedstuffs.

Further information on storage conditions: Keep away from direct sunlight.  
Protect from frost.

Storage temperature: 0 - 30 °C

Suitable materials: Keep in original packaging, tightly closed.

#### 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective clothing during manufacture: Chemical resistant gloves, PVC gloves, nitrile gloves, chemical resistant goggles must be worn, light protective clothing, PVC, PVC boots.

Protective clothing during normal use: Wear protective clothing when applying the diluted washes to surfaces or when working in spray mist.  
Wear a face shield when applying the diluted washes to surfaces or when working in spray mist.

Hygiene measures: Avoid skin contact and wash splashes from skin or eyes immediately.  
Wash with soap and water after use.  
Wash contaminated clothing daily.  
Do not eat, drink or smoke whilst mixing or applying or before washing face and hands.

#### 9) PHYSICAL AND CHEMICAL PROPERTIES

Description: An opaque, white, moderately viscous liquid.

Flash point: > 100 °C

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Solubility:	Product is miscible with water.
<b>10) STABILITY AND REACTIVITY</b>	
Corrosiveness:	Deltamethrin is non-corrosive to metals.
Stability:	Stable on exposure to air and sunlight. Stable under recommended storage conditions.
Compatibility:	Do not mix with any other spray or dip.
Degradation:	The microbial degradation of deltamethrin in soil takes place within 1 to 2 weeks.
<b>11) TOXICOLOGICAL INFORMATION</b>	
For the product an acute hazard is unlikely in normal use.	
Acute toxicity:	
LD <sub>50</sub> acute oral, rat:	> 22000 mg/kg
LD <sub>50</sub> acute dermal, rat:	> 10000 mg/kg
LC <sub>50</sub> (6hrs) acute inhalation, rats:	2.3 mg/air
Skin irritation, rabbit:	Non-irritant
Eye irritation, rabbit:	Non-irritant
Skin sensitization, guinea pig:	Non-sensitizer
<b>12) ECOLOGICAL INFORMATION</b>	
Toxicity to fish: (deltamethrin)	
LC <sub>50</sub> :	0.00026 mg// Rainbow trout, 96 h
Toxicity to Daphnia: (deltamethrin)	
EC <sub>50</sub> :	0.00011 mg// <i>Daphnia magna</i> , 48 h
Toxicity to algae: (deltamethrin)	
EC <sub>50</sub> :	> 9.1 mg//, 72 h
Toxicity to birds: (deltamethrin)	
LD <sub>50</sub> :	> 2250 mg// Bobwhite quail
LD <sub>50</sub> :	> 4640 mg// Mallard duck
<b>13) DISPOSAL CONSIDERATIONS</b>	
Disposal of residue:	Residue may be disposed of as for toxic waste in accordance with local/national regulations.
Disposal of used packaging material:	Empty containers to be disposed of in accordance with local/national regulations. DO NOT re-use for any other purpose.
<b>14) TRANSPORT INFORMATION</b>	
UN Number:	3082
Class:	9
IMDG:	-
Ems:	-
MFAG:	-
Subsidiary risk:	•
Packing group:	III
Declaration for land shipment:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Declaration for sea shipment:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Declaration for shipment by air:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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**15) REGULATORY INFORMATION**

Risk phrases: R 23/25, 36/37/38, 51, 55, 57.

Safety phrases: S 1/2, 3, 13, 20/21, 24, 28, 36.

WHO Classification: III (slightly hazardous)

**16) OTHER INFORMATION**

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.

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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