

SAFETY DATA SHEET

COOPEX MAXI SMOKE GENERATOR

F985 3.00 GB Current 12.01.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	COOPEX MAXI SMOKE GENERATOR
Product (Specification) Code	F985
Aventis CropScience Product Code	AE F032639 00 FU 14 A1
Usage	Ready-to-use smoke generator. Insecticide
Appearance	Coarse off-white powder contained in a plastic smoke generator container.
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. Permethrin	52645-53-1	13.50	R22, R50/53	Xn, N
2. Potassium chlorate	3811-04-9	5.00 < 20.00	R9, R20/22	O

3. HAZARDS IDENTIFICATION

Main Hazards	Not classified as hazardous. Potential ignition source - contains pyrotechnic composition.
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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	Following more than incidental inhalation 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 very painful, 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. There is no specific antidote. Diazepam I.V. (repeated as necessary) may be given as anticonvulsant therapy.

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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 flammable. If product is involved in a fire, other than for which it is intended or if fire/smoke becomes uncontrolled, extinguish with waterspray, foam, sand or earth.
Unsuitable Extinguishing Media	Powder or CO2 extinguishers should not be used.
Special Exposure Hazards	The product is designed to evolve copious fumes of permethrin quite rapidly (burn time 20 seconds) when ignited.
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	Sweep or preferably vacuum up spillage using equipment fitted with high efficiency final filter. Avoid creating a dust. 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, animal feedstuffs and flammable materials.
Technical Storage Measures	Keep all ignition sources and sources of heat away.

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 approved dust mask or full-face self-contained breathing apparatus, depending upon exposure potential.
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).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Coarse. Powder. (contents)
Colour	Off-white. (contents)
Odour	No data.
pH	Not applicable
Boiling Range/Point (deg C)	Not applicable
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Not applicable
Explosion Limits (%)	Not applicable
Solubility in Water	Insoluble. (contents)
Vapour Pressure	No data.
Density (g/ml)	1.05. (contents)
Flammability	Contains a flammable solid.
Auto-flammability (deg C)	Not applicable
Explosive Properties	None.
Oxidising Properties	Not applicable
Vapour Density (Air = 1)	Not applicable
Dust Explosion Data	Not applicable
Summary/Other Data	Contains a flammable solid.

10. STABILITY AND REACTIVITY

Stability	Stable at ambient conditions.
Conditions to Avoid	Heat Sources of ignition.
Materials to Avoid	Strong acids.

11. TOXICOLOGICAL INFORMATION

Inhalation	Low toxicity; rat inhalational LC50 > 4.23 mg/l.
Skin and Eye Contact	Low toxicity.
Ingestion	Low toxicity.
Carcinogenicity	Data given in this section are for the active ingredient: Not carcinogenic.
Genotoxicity	Data given in this section are for the active ingredient: Not mutagenic.
Reproductive Toxicity	Data given in this section are for the active ingredient: Not teratogenic.

12. ECOLOGICAL INFORMATION

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12. ECOLOGICAL INFORMATION (continued)

Mobility	Data given in this section are for the active ingredient: Weakly mobile in soils.
Persistence/Degradability	Data given in this section are for the active ingredient: Soil DT50 < 28 days. Water DT50 6 to 24 hours (ponds and streams), 7 days (pond sediment).
Bio-accumulation	Data given in this section are for the active ingredient: Not expected to bioaccumulate. Log P = 6.1.
Aquatic Toxicity	Data given in this section are for the active ingredient: 96 hr LC50 rainbow trout 0.019 mg/l, bluegill sunfish 0.032 mg/l, 48 hr EC50 daphnia 0.002 mg/l.
Other Toxicity	Data given in this section are for the active ingredient: Acute oral LD50 chickens > 3000 mg/kg, japanese quail > 13500 mg/kg. Toxic to the following species; bees .

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	3077
UN Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (contains permethrin 13.5 %)
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	<input type="checkbox"/> None
Hazard Classification	Not classified
Designated Name	Coopex Maxi Smoke Generator (contains permethrin 13.5 % and potassium chlorate)
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 (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.

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15. REGULATORY INFORMATION (continued)

AVOID naked flames and hot surfaces.
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), SYNTHETIC RUBBER/PVC GLOVES AND EYE PROTECTION (GOGGLES) when using. DO NOT BREATHE SMOKE. 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. WEAR SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT when removing residues after treatment.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
VACATE TREATMENT AREA before application.
REMOVE OR COVER ALL FOODSTUFFS before application.
COVER FOOD, FOOD PREPARING EQUIPMENT AND EATING UTENSILS before application.
COVER WATER STORAGE TANKS before application.
EXCLUDE ALL PERSONS AND ANIMALS DURING TREATMENT.
EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE. Do not contaminate watercourses or ground.
Remove or cover fish tanks and bowls before application.
DISPOSE OF USED GENERATOR SAFELY.
ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT (1981) OR THE WILDLIFE (NORTHERN IRELAND) ORDER (1985). BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURAL HERITAGE, THE COUNTRYSIDE COUNCIL FOR WALES, OR DEPARTMENT OF THE ENVIRONMENT FOR NORTHERN IRELAND.
READ ALL PRECAUTIONS BEFORE USE.

16. OTHER INFORMATION

MSDS first issued	22 February 1999
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 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.
