SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



#### **COOPEX MINI SMOKE GENERATOR**

Version 4 / GB Revision Date: 09.07.2009 102000002531 Print Date: 12.08.2010

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

#### **Product information**

Trade name COOPEX MINI SMOKE GENERATOR

Product code (UVP) 05938406 Usage Insecticide

Company Bayer Environmental Science

230 Cambridge Science Park

Milton Road Cambridge

Cambridgeshire CB4 0WB

**Great Britain** 

Telephone +44(0)1223 226500 Telefax +44(0)1223 426240

Responsible Department Email: ukinfo@bayercropscience.com

Emergency telephone number 0800-220876 (UK 24 hr)

+44(0)1603-242424 (Overseas 24 hr)

#### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Harmful if swallowed.

Irritating to eyes and respiratory system.

May cause sensitization by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Ignites readily. Product burns without a flame to give a dense white harmful smoke.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Smoke generator (FU) Permethrin 25/75 13.5% w/w

#### **Hazardous components**

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Permethrin	52645-53-1 258-067-9	Xn, N	R20/22, R43, R50/53	13.50
Potassium chlorate	3811-04-9 223-289-7	O, Xn, N	R 9, R20/22, R51/53	> 2.50 - < 25.00
Talc	14807-96-6 238-877-9			> 1.00

For the full text of the R-phrases mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

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#### General advice

Remove contaminated clothing immediately and dispose of safely.

#### Inhalation

Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

#### Skin contact

In case of skin contact, immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.

#### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.

#### Ingestion

Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

#### **Notes to Physician**

#### **Symptoms**

Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours., Skin, eye and mucous membrane irritation, Cough

#### **Symptoms**

Systemic:, Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration

#### **Risks**

This product contains a pyrethroid.

Must NOT be confused with organophosphorus compounds!

#### **Treatment**

Local treatment:

Initial treatment: symptomatic.

#### **Treatment**

Systemic treatment:

Initial treatment: symptomatic.

Monitor: respiratory and cardiac functions.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

Keep respiratory tract clear.

Give oxygen or artificial respiration if needed.

In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.

If not effective, phenobarbital may be used.

Contraindication: atropine.

Contraindication: derivatives of adrenaline.

There is no specific antidote.

Recovery is spontaneous and without sequelae.

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#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Extinguishing media which should not be used for safety reasons

High volume water jet

#### Specific hazards during fire fighting

Dangerous gases are evolved in the event of a fire.

Contains potassium chlorate which is classified as an oxidising agent.

#### Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

#### **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 diking area with sand or earth.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions**

Keep people away from and upwind of spill/leak.

Avoid dust formation.

Avoid contact with spilled product or contaminated surfaces.

When dealing with a spillage do not eat, drink or smoke.

#### **Environmental Precautions**

Do not allow to get into surface water, drains and ground water.

If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

#### Methods for cleaning up

The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Clean contaminated floors and objects thoroughly, observing environmental regulations. Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### **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.

Avoid dust formation.

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

Dust may form explosive mixtures with air.

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#### **Storage**

Requirements for storage areas and containers

Store in a place accessible by authorized persons only.

Keep away from direct sunlight.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials

Store in original container.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

#### Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Permethrin	52645-53-1	10 mg/m3		OES BCS*
Talc (Respirable dust.)	14807-96-6	1 mg/m3 (TWA)	2007	EH40 WEL

<sup>\*</sup>OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection	Wear respirator with a particle filter mask (protection factor 4)
	conforming to European norm EN149FFP1 or equivalent.
	Respiratory protection should only be used to control residual risk of
	short duration activities, when all reasonably practicable steps have
	been taken to reduce exposure at source e.g. containment and/or
	local extract ventilation. Always follow respirator manufacturer's
	instructions regarding wearing and maintenance.

Hand protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating,

drinking, smoking or using the toilet.

Eye protection Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection Wear standard coverall and type 3 suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

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Hygiene measures

When using, do not eat, drink or smoke.

Remove soiled clothing immediately and clean thoroughly before using again.

Wash hands thoroughly with soap and water after handling and before eating, drinking,

chewing gum, using tobacco, using the toilet or applying cosmetics.

Wash hands immediately after work, if necessary take a shower.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Form powder
Colour off-white
Odour characteristic

Safety data

Ignition temperature > 130 °C

Water solubility partly soluble

Oxidizing properties Contains potassium chlorate which is classified as an oxidising

agent.

#### 10. STABILITY AND REACTIVITY

Conditions to Avoid Extremes of temperature and direct sunlight.

Heat, flames and sparks.

Hazardous Reactions No hazardous reactions when stored and handled according to

prescribed instructions.

Stable under normal conditions.

#### 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (rat) approx. 2,000 mg/kg

Information given is based on data on the components and the

toxicology of similar products.

Acute Inhalation Toxicity LC50 (rat) > 4.2 mg/l

Exposure time: 4 h

Irritating to respiratory system.

Acute Dermal Toxicity LD50 (rat) > 2,000 mg/kg

Information given is based on data on the components and the

toxicology of similar products.

Skin Irritation No skin irritation. (rabbit)

Eye Irritation Irritating to eyes. (rabbit)

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Sensitization sensitizing (guinea pig)

Information given is based on data on the components and the

toxicology of similar products.

Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity effects**

Toxicity to Fish LC50 (Guppy (Poecilia reticulata)) 0.0076 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient permethrin.

Toxicity to daphnia EC50 (Water flea (Daphnia magna)) 0.00017 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient permethrin.

Toxicity to algae EC50 (Selenastrum capricornutum) 0.497 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient permethrin.

#### 13. DISPOSAL CONSIDERATIONS

#### **Product**

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

#### Contaminated packaging

Dispose of empty and cleaned packaging safely.

Not completely emptied packagings should be disposed of as hazardous waste.

#### Waste key for the unused product

020108 agrochemical waste containing dangerous substances

#### 14. TRANSPORT INFORMATION

#### ADR/RID/ADNR

UN-Number 3077
Labels 9
Packaging group III
Hazard no. 90

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PERMETHRIN MIXTURE)

Tunnel Code

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This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**IMDG** 

UN-Number 3077 Labels 9 Packaging group III

EmS F-A, S-F Marine pollutant Marine pollutant

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PERMETHRIN MIXTURE)

**IATA** 

UN-Number 3077
Labels 9
Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PERMETHRIN MIXTURE)

**UK 'Carriage' Regulations** 

UN-Number 3077
Labels 9
Packaging group III
Hazard no. 90
Emergency action code 2Z

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PERMETHRIN MIXTURE)

#### 15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

Permethrin

Potassium chlorate

Symbol(s)

Xn Harmful

N Dangerous for the environment

R-phrase(s)

R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system.
R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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S-phrase(s)

S24 Avoid contact with skin.

S35 This material and its container must be disposed of in a safe way.

S37 Wear suitable gloves.

Use appropriate container to avoid environmental contamination.

#### **I** CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS:

The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.

Symbol(s)

Xn Harmful

N Dangerous for the environment

R-phrase(s)

R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system.
R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

**Exceptional labelling** 

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

#### **16. OTHER INFORMATION**

#### **Further information**

Text of R-phrases mentioned in Section 3

R 9 Explosive when mixed with combustible material.

R20/22 Harmful by inhalation and if swallowed.
R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Smoke generators are ready to use products contained in a plastic or aluminium container.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, 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.

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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.

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