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



# **COOPEX MAXI SMOKE GENERATOR**

Version 5 / GB 10200002531 1/12 Revision Date: 26.10.2015 Print Date: 25.04.2016

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Trade name	COOPEX MAXI SMOKE GENERATOR
Product code (UVP)	05938406
1.2 Relevant identified uses of	f the substance or mixture and uses advised against
Use	Insecticide
1.3 Details of the supplier of t	he safety data sheet
Supplier	Bayer Environmental Science 230 Cambridge Science Park Milton Road Cambridge Cambridgeshire CB4 0WB United Kingdom
Telephone	00800-1214 9451
Telefax	+44(0)1223 426240
Responsible Department	Email: ukinfo@bayercropscience.com
1.4 Emergency telephone no.	
Emergency telephone no.	0800-220876 (UK 24 hr)
	+44(0)1635-563000 (Overseas 24 hr)

# **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

# Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute toxicity: Category 4 H302 Harmful if swallowed.

Skin sensitisation: Category 1 H317 May cause an allergic skin reaction.

Eye irritation: Category 2H319Causes serious eye irritation.

Specific target organ toxicity - single exposure: Category 3H335May cause respiratory irritation.

Acute aquatic toxicity: Category 1 H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1 H410 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

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Hazard label for supply/use required.

### Hazardous components which must be listed on the label:

- Permethrin
- Potassium chlorate



Signal word: Warning

#### **Hazard statements**

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for
	use.

#### **Precautionary statements**

P280Wear protective gloves/protective clothing/eye protection/face protection.P308 + P311IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.P501Dispose of contents/container to a licensed hazardous-waste disposal contractor or<br/>collection site except for empty clean containers which can be disposed of as non-<br/>hazardous waste.

### 2.3 Other hazards

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). Ignites readily. Product burns without a flame to give a dense white harmful smoke.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

### **Chemical nature**

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

#### Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	Regulation (EC) No 1272/2008	
Permethrin	52645-53-1 258-067-9	Acute Tox. 4, H332 Acute Tox. 4, H302 Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Skin Sens. 1, H317	13.50
Potassium chlorate	3811-04-9	Acute Tox. 4, H302	> 1.00 - <

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	223-289-7	Acute Tox. 4, H332 Ox. Sol. 1, H271 Aquatic Chronic 2, H411	25.00
Talc	14807-96-6 238-877-9	Not classified	> 1.00

### **Further information**

Permethrin	52645-53-1	M-Factor: 1,000 (acute), 1,000 (chronic)

Substances for which there are Community workplace exposure limits: Permethrin (52645-53-1)

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

-	
General advice	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
Inhalation	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
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.
4.2 Most important symptoms	s and effects, both acute and delayed
Symptoms	Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing
	Systemic:, Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy
4.3 Indication of any immedia	te medical attention and special treatment needed

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Risks	This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
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. 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.

## **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet
5.2 Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire., Contains potassium chlorate which is classified as an oxidising agent.
5.3 Advice for firefighters	
Special protective equipment for fire-fighters	In the event of fire and/or explosion do not breathe fumes. 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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions	, protective equipment	t and emergency procedures
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Precautions	Avoid dust formation. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Remove all sources of ignition.
6.2 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).

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#### 6.3 Methods and materials for containment and cleaning up

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. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Clean floors and contaminated objects with plenty of water.
Additional advice	Check also for any local site procedures.
6.4 Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling		
Advice on safe handling	Avoid dust formation. Use only in area provided with appropriate exhaust ventilation.	
Advice on protection against fire and explosion	Dust may form explosive mixture in air. Keep away from heat and sources of ignition.	
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).	
7.2 Conditions for safe stora	ge, including any incompatibilities	
Requirements for storage areas and containers	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight.	
Advice on common storage	Keep away from food, drink and animal feedingstuffs.	
Suitable materials	Polyethylene film within an outer package	
7.3 Specific end uses	Refer to the label and/or leaflet.	

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Permethrin	52645-53-1	1 mg/m3 (TWA)	12 2011	EH40 WEL
Permethrin	52645-53-1	1 mg/m3 (TWA)	12 2009	EU ELV
Permethrin	52645-53-1	10 mg/m3 (TWA)		OES BCS*
Talc (Respirable dust.)	14807-96-6	1 mg/m3 (TWA)	12 2011	EH40 WEL

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\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

### 8.2 Exposure controls

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.

#### 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	breakthrough time which ar Also take into consideration the product is used, such a contact time. Wash gloves when contam inside, when perforated or be removed. Wash hands f	ease observe the instructions regarding permeability and eakthrough time which are provided by the supplier of the gloves. so take into consideration the specific local conditions under which e product is used, such as the danger of cuts, abrasion, and the intact time. ash gloves when contaminated. Dispose of when contaminated ide, when perforated or when contamination on the outside cannot removed. Wash hands frequently and always before eating, nking, smoking or using the toilet. aterial Nitrile rubber te of permeability > 480 min ove thickness > 0.4 mm otective index Class 6	
Eye protection	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).		
Skin and body protection	Wear standard coveralls and Category 3 Type 4 suit. If there is a risk of significant exposure, consider a higher protective type 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.		

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form	powder
Colour	white to light beige
Odour	characteristic
Ignition temperature	> 130 °C
Bulk density	ca. 940 kg/m3

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Water solubility	partly soluble
Oxidizing properties	Contains potassium chlorate which is classified as an oxidising agent.
9.2 Other information	Further safety related physical-chemical data are not known.

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	
Thermal decomposition	Stable under normal conditions.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight. Heat, flames and sparks.
10.5 Incompatible materials	Store only in the original container.
10.6 Hazardous decomposition products	No decomposition products expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute oral toxicity	LD50 (rat) ca. 2,000 mg/kg	
Acute inhalation toxicity	toxicity LC50 (rat) > 4.2 mg/l Exposure time: 4 h Highest attainable concentration. Irritating to respiratory system.	
Acute dermal toxicity	ATE > 2,000 mg/kg ATE – acute toxicity estimate	
Skin irritation	No skin irritation (rabbit)	
Eye irritation	Irritating to eyes. (rabbit)	
Sensitisation	Sensitising (guinea pig) Information given is based on data on the components and the toxicology of similar products.	

## Assessment repeated dose toxicity

Permethrin did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Permethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Permethrin caused at high dose levels an increased incidence of tumours in mice in the following organ(s): liver, Lungs. The mechanism that triggers tumours in rodents is not relevant for the low

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exposures encountered under normal use conditions.

#### Assessment toxicity to reproduction

Permethrin did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Permethrin did not cause developmental toxicity in rats and rabbits.

#### **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).

## **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity				
Toxicity to fish	LC50 (Poecilia reticulata (guppy)) 0.0076 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient permethrin.			
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 0.00017 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient permethrin.			
Toxicity to aquatic plants	EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.497 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient permethrin.			
12.2 Persistence and degradability				
Biodegradability	Permethrin: not rapidly biodegradable			
Кос	Permethrin: Koc: 100000			
12.3 Bioaccumulative potential				
Bioaccumulation	Permethrin: Bioconcentration factor (BCF) 300 Does not bioaccumulate.			
12.4 Mobility in soil				
Mobility in soil	Permethrin: Immobile in soil			
12.5 Results of PBT and vPvB assessment				
PBT and vPvB assessment	Permethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).			
12.6 Other adverse effects				
Additional ecological information	No other effects to be mentioned.			

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# SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

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	<ul> <li>Small containers (&lt; 10 l or &lt; 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.</li> <li>Add washings to sprayer at time of filling.</li> <li>Dispose of empty and cleaned packaging safely.</li> <li>Large containers (&gt; 25 l or &gt; 25 kg) should not be rinsed or re-used for any other purpose.</li> <li>Return large containers to supplier.</li> <li>Follow advice on product label and/or leaflet.</li> </ul>
Waste key for the unused product	02 01 08* agrochemical waste containing dangerous substances

## **SECTION 14: TRANSPORT INFORMATION**

## ADR/RID/ADN

14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(PERMETHRIN MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
Tunnel Code	E

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

14.1 UN number 14.2 Proper shipping name	<b>3077</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)
<ul><li>14.3 Transport hazard class(es)</li><li>14.4 Packing group</li><li>14.5 Marine pollutant</li><li>Segregation group according to</li><li>5.4.1.5.11.1</li></ul>	9 III YES IMDG SEGREGATION GROUP 4 - CHLORATES
ΙΛΤΛ	

## IATA

1	4.1	UN n	umber	

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<ul><li>14.2 Proper shipping name</li><li>14.3 Transport hazard class(es)</li><li>14.4 Packing group</li><li>14.5 Environm. Hazardous Mark</li></ul>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE) 9 III YES
UK 'Carriage' Regulations	
14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Emergency action code	2Z

### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** No transport in bulk according to the IBC Code.

# SECTION 15: REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### **UK and Northern Ireland Regulatory References**

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

### Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

## Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009 Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677) EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits Control of Pesticide Regulations 1986 Dangerous Substances and Explosive Atmospheres Regulations 2002

### Waste Treatment

Environmental Protection Act 1990, Part II Environmental Protection (Duty of Care) Regulations 1991 The Waste Management Licensing Regulations 1994 (as amended) Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive

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Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94) Water Resources Act 1991 Anti-Pollution Works Regulations 1999

### **Further information**

WHO-classification: III (Slightly hazardous)

### **15.2 Chemical Safety Assessment**

A chemical safety assessment is not required.

## **SECTION 16: OTHER INFORMATION**

#### Text of the hazard statements mentioned in Section 3

H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
11400	Manutavia ta anvetia lifa

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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

#### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate (ATE)
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
EC-No.	European community number
ECx	Effective concentration to x %
EH40 WEL	Worker Exposure Limit
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous
	Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SI	Statutory Instrument

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TWA	Time weighted average
UN	United Nations
WHO	World health organisation

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.

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.

## Reason for Revision:

Section 12. Ecological information. Safety Data Sheet according to Regulation (EU) No. 2015/830.

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