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



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# COOPEX MAXI SMOKE GEN FU 6X12PC BOX CHS

 Version 5 / GB
 Revision Date: 30.09.2014

 102000002531
 Print Date: 09.09.2015

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

1.1 Product identifier

Trade name COOPEX MAXI SMOKE GEN FU 6X12PC BOX CHS

Product code (UVP) 05938406

1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use** Insecticide

1.3 Details of the supplier of the 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 2

H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure: Category 3

H335 May 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.

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn Harmful, R22 Xi Irritant, R36/37 Xi Irritant, R43

N Dangerous for the environment, R50/53

2.2 Label elements

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

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**

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or

collection site except for empty clean containers which can be disposed of as non-

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**

R-phrase(s) according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Permethrin	52645-53-1 258-067-9	Xn; R20/22 R43 N; R50/53	Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400	13.50

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			Aquatic Chronic 1, H410	
Potassium chlorate	3811-04-9 223-289-7	O; R 9 Xn; R20/22 N; R51/53	Ox. Sol. 1, H271 Acute Tox. 4, H332 Acute Tox. 4, H302 Aquatic Chronic 2, H411	> 1.00 - < 25.00
Talc	14807-96-6 238-877-9	Not classified	Not classified	> 1.00

#### **Further information**

Permethrin 526	645-53-1 M-Factor:	1,000 (acute)
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For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

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

# 4.1 Description of first aid measures

**General advice** Remove contaminated clothing immediately and dispose of safely.

**Inhalation** Move the victim to fresh air and keep 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 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 immediate medical attention and special treatment needed

**Risks** This product contains a pyrethroid. Pyrethroid poisoning should not be

confused with carbamate or organophosphate poisoning.

**Treatment** Local treatment: Initial treatment: symptomatic.

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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.

quipment for fire-fighters 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 and emergency procedures

**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.

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).

### 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.

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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 No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Avoid dust

formation. Ensure adequate ventilation.

Advice on protection against fire and explosion

Dust may form explosive mixture in air.

**Hygiene measures** When using, do not eat, drink or smoke. Remove soiled clothing

immediately and clean thoroughly before using again. Contaminated work clothing should not be allowed out of the workplace. 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.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

direct sunlight. Protect from freezing.

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	10 mg/m3 (TWA)		OES BCS*
Talc (Respirable dust.)	14807-96-6	1 mg/m3 (TWA)	12 2011	EH40 WEL

<sup>\*</sup>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

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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 of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and 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 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
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**No hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

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**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 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 irritationNo skin irritation (rabbit)Eye irritationIrritating to eyes. (rabbit)SensitisationSensitising (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 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

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The value mentioned relates to the active ingredient permethrin.

Toxicity to aquatic

EC50 (Water flea (Daphnia magna)) 0.00017 mg/l

invertebrates

Exposure time: 48 h

The value mentioned relates to the active ingredient permethrin.

Toxicity to aquatic plants EC50 (Selenastrum capricornutum) 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

**Koc** 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.

### **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** Dispose of empty and cleaned packaging safely.

Not completely emptied packagings should be disposed of as

hazardous waste.

Follow advice on product label and/or leaflet.

Waste key for the unused

product

**020108** agrochemical waste containing dangerous substances

# **SECTION 14: TRANSPORT INFORMATION**

ADR/RID/ADN

14.1 UN number 3

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

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(PERMETHRIN MIXTURE)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environm. Hazardous Mark
Hazard no.
700
Tunnel Code
9
9
E

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

### **IMDG**

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 Marine pollutant YES

Segregation group according to IMDG SEGREGATION GROUP 4 - CHLORATES

5.4.1.5.11.1

#### **IATA**

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

# **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)914.4 Packing groupIII14.5 Environm. Hazardous MarkYESEmergency action code2Z

# 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 73/78 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**

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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** 

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 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 sensitisation 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.

### 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.
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.

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

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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. 453/2010.

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