

Safety Data Sheet

Revision date: 19 March 2018

replaces all previous editions

ACTELIC SMOKE GENERATOR NO.20

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING

1.1 Product identifier

1.1. Tradename: ACTELIC SMOKE GENERATOR NO.20

1.2. Formulation Smoke Generator
type:

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 Octavius Hunt Ltd
Redfield, BRISTOL, BS5 9NQ
United Kingdom

Phone +44 (0) 117 955 5304
Fax +44 (0) 117 955 7875
Website www.octavius-hunt.co.uk

1.4 Emergency telephone no.

Emergency telephone no. +44 (0) 117 955 5304

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 (Oral): Category 4
H302 Harmful if swallowed

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

Hazard label for supply/use required

Hazardous components which must be listed on the label

- Pirimiphos methyl
- Potassium chlorate



Signal word: Warning

Hazard statements

H302 Harmful if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P301/312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P330 Rinse mouth
P391 Collect spillage
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.

Supplemental information

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This product contains an anticholinesterase compound. May form flammable dust-air mixture.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Smoke Generator
Pirimiphos methyl 22.5% w/w

Hazardous components

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

Name	CAS No. / EC No.	Regulation (EC) No 1272/2008	Conc (%)
Pirimiphos methyl	29232-93-7 249-528-5	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	22.5
Potassium chlorate	3811-04-9 223-289-7	Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 2, H411 Ox. Sol. 1, H271	> 10.00 – < 25.00

Substances for which there are Community workplace exposure limits
For the full text of Hazard statements mentioned in this section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice** Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control centre or physician, or going for treatment
- Inhalation** Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately
- Skin contact** Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
- 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. Immediate medical attention is required
- Ingestion** If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting

4.2 Most important symptoms and effects, both acute and delayed

Symptoms The symptoms are of cholinesterase inhibition

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice Call the emergency number shown in this document, a poison control centre or doctor immediately for treatment advice. Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulphate, either by intramuscular or intravenously, dependant on severity of poisoning, Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media – small fires

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

Extinguishing media – small fires

Use alcohol-resistant foam or water spray.

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Wear full protective clothing and self contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Avoid dust formation

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. If the product contaminates rivers and lakes or drains inform respective authorities.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

Refer to disposal considerations listed in section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes.

When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs

7.3 Specific end use(s)

Registered Crop Protection product. For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters.

Component	CAS-No	Control parameters	Update	Basis
Pirimiphos methyl	29232-93-7	3 mg/m ³ (TWA)		SYNGENTA

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	Wear CE Marked (or equivalent) nitrile gloves (minimum thickness of 0.4mm). 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 EN116. 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

Physical state	Solid
Form	powder
Colour	white to light beige
Odour	characteristic
Ignition temperature	> 475 °C
Bulk density	ca. 940 kg/m ³
Water solubility	partly soluble
Explosive properties	Not explosive
Oxidizing properties	Not oxidising.

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 packaging
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) > 2000 mg/kg
Acute inhalation toxicity	LC50 (Female rat) 3.22 mg/l, 4h LC50 (Male rat) 3.4 mg/l, 4h
Acute dermal toxicity	LD50 Rat, > 2000 mg/kg
Skin irritation	No skin irritation. Derived from components
Eye irritation	No eye irritation. Derived from components
Sensitisation	Not a skin sensitiser. Derived from components

Germ cell mutagenicity

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

Assessment Mutagenicity

Pirimiphos methyl Did not show mutagenic effects in animal experiments

Assessment Teratogenicity

Pirimiphos methyl Did not show teratogenic effects in animal experiments

Assessment Carcinogenicity

Pirimiphos methyl Did not show carcinogenic effects in animal experiments

Assessment toxicity to reproduction

Pirimiphos methyl Did not show reproductive toxicity effects in animal experiments

STOT – repeated exposure

Pirimiphos methyl No adverse effect has been observed in chronic toxicity test.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	No data is available on the product itself
Toxicity to aquatic invertebrates	No data is available on the product itself
Toxicity to aquatic plants	No data is available on the product itself

12.2 Persistence and degradability

Stability in water

Pirimiphos methyl : Degradation half-life: 4-6 d. Persistent in water

Stability in soil

Pirimiphos methyl : Degradation half-life: 8.3 d. Not persistent in water

12.3 Bioaccumulative potential

Pirimiphos methyl : High potential for bioaccumulation

12.4 Mobility in soil

Pirimiphos methyl : Low mobility in soil

12.5 Results of PBT and vPvB assessment

Pirimiphos methyl This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)
This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects

Classification of the product is based on the summation of the concentrations of classified components

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	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PIRIMIPHOS METHYL)
14.3 Transport hazard class(es)	9
14.4 Packaging group	III

14.5 Envirom. Hazardous Mark
YES
Hazard no. 90
Tunnel Code E

IMDG

14.1 UN number 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (PIRIMIPHOS METHYL)
14.3 Transport hazard class(es) 9
14.4 Packaging group III
14.5 Marine pollutant YES
Segregation group IMDG SEGREGATION GROUP 4 - CHLORATES
according to 5.4.1.5.11.1

IATA

14.1 UN number 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (PIRIMIPHOS METHYL)
14.3 Transport hazard class(es) 9
14.4 Packaging group III
14.5 Envirom. Hazardous Mark YES

UK Carriage Regulations

14.1 UN number 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (PIRIMIPHOS METHYL)
14.3 Transport hazard class(es) 9
14.4 Packaging group III
14.5 Envirom. 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 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 Relevant Legislation

Dangerous Preparations Directive 1999/45/EC
CLP-Regulation 1272/2008/EC
790/2009/EC
Directive 453/2010/EC amending REACH Directive 1907/2006/EC
Chemical Agents Directive 98/24/EC

15.2 Chemical safety assessment

N.A.

SECTION 16: OTHER INFORMATION

Further information.

Use plant protection products safely. Always read the label and product information before use.

Full text of H-Statements referred to under sections 2 and 3.

H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This version replaces all previous versions.