

## Safety Data Sheet

### Cypermethrin Smoke Pellet

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

##### Product Identifier

- 1.1. Tradename: Cypermethrin Smoke Pellet  
Contains Potassium chlorate, Ammonium chloride and Cypermethrin  
UFI: 2800-D0S2-8003-DSXA
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Insecticide smoke generation pellet

##### 1.3. Details of the supplier of the safety data sheet

Company: Octavius Hunt Ltd  
Redfield, BRISTOL, BS5 9NQ, UK  
Phone: +44 (0) 117 955 5304  
Website: [www.octaviushunt.co.uk](http://www.octaviushunt.co.uk)  
Email: [info@octavius-hunt.co.uk](mailto:info@octavius-hunt.co.uk)

- 1.4. Emergency telephone number: + 44 (0) 1179555304 (Not 24h)  
Contact local Poison Centre

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1 Classification of the substance or mixture

- Classification (Regulation (EC) No 1272/2008) [CLP/GHS]: Eye Dam. 1. H318; Acute Tox. 4, H302; Aquatic Chronic 2, H411
- Additional Information: For full text of Hazard and EU Hazard-statements: see section 16

##### 2.2 Label elements



Signal word: DANGER

## Hazard statements

H302	Harmful if swallowed
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects

## Precautionary statements

P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/eye protection.
P301 + P312	IF swallowed: Call a POISON CENTRE/ doctor if you feel unwell
P305 + P351 + P338	If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P273	Avoid release to the environment
P501	Dispose of contents/container in accordance with local / regional / international regulations.

## 2.3 Other hazards

- Ignites readily. Product burns without a flame to give a dense white harmful smoke.
- Combustion products include ammonium chloride

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances: N.A.

### 3.2. Mixture

Contains the following hazardous ingredients or ingredients with a workplace exposure limit

Chemical Name	Conc.	CAS No.	EC No.	Classification according to Regulation (EC) No 1272/2008 (CLP).	SCL/M-Factor/ATE	REACH Registration Number	WEL/OEL
Ammonium chloride	5-15%	12125-02-9	-	Acute Tox. H302; Eye Irrit. H319.	-	-	No
Potassium chlorate	15 -25% w/w	3811-04-9	223-289-7	Ox. Liq. H271; Acute Tox. H301	Oral ATE of 100 mg/kg bw	01-2119494917-18-xxxx	No
Cypermethrin 40% Wettable Powder	2-4%	(Comprise 30-50% 52645-53-1, 1-3% 85586-07-8)	-	Acute Tox. H302; Eye Dam. H318; Acute Tox. H332; STOT SE. H335; Aquatic chronic. H410.	-	-	No
Kaolin	35-45%	1332-58-7	310-194-1	Not classified	-	-	Yes
Quartz (crystalline silica) - Possible max component within Kaolin	<1% of the above Kaolin	14808-60-7	238-878-4	STOT RE 1, H372	-	-	Yes

## SECTION 4: FIRST AID MEASURES

Rescuers should take suitable precautions to avoid becoming casualties themselves

### 4.1 Description of First Aid Measures General Advice:

Show this safety data sheet to the doctor in attendance

#### Contact with eyes:

If substance has got into eyes, immediately wash out with plenty of water for several minutes. Irrigate eyes thoroughly whilst lifting eyelids.

Remove contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention

#### Contact with skin:

Take off contaminated clothing and wash it before reuse.

Wash affected area with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention

#### Inhalation:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If unconscious, place person in recovery position

Apply artificial respiration only if patient is not breathing but **do not** use mouth to mouth resuscitation. Get immediate medical advice/attention.

#### Ingestion:

Rinse mouth with water (do not swallow).

Give 200-300mls (half pint) water to drink.

Do NOT induce vomiting. Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Contact with eyes

- Causes serious eye damage. May cause severe damage with formation of corneal ulcers and permanent impairment of vision. Causes redness and swelling.

Contact with skin

- May cause redness and irritation.
- In cases of severe exposure, blistering of the skin may develop.

Ingestion

- Harmful if swallowed

Inhalation

- No anticipated effects but may cause shortness of breath, coughing and tightness of chest.
- Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness

### 4.3. Immediate Medical Attention

Risk of methemoglobinemia. Not to be treated with methylthionine. - Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media:

- Suitable extinguishing media:

Sand/earth; foam; water spray; carbon dioxide.

- Unsuitable extinguishing media:

Do not use water jets; Dry agent extinguishers are unsuitable and should not be used.

### 5.2. Special Hazards arising from the mixture:

- Ignites readily.

- Contains an oxidising agent; may assist combustion.

- Gives off irritating or toxic fumes (or gases) in a fire.

- Decomposition products may include oxygen, ammonium chloride, carbon oxides, nitrogen oxides, ammonia, hydrocyanic acid (HCN).

### 5.3. Advice for fire-fighters:

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.

- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures:**

- No action shall be taken involving any personal risk or without suitable training.
- Only trained and authorised personnel should carry out emergency response.
- Avoid formation of dust.
- Shut off all ignition sources
- Personal precautions for non-emergency personnel: Avoid breathing dust/smoke. Avoid contact with skin and eyes; Wear protective clothing as per section 8; Wash thoroughly after handling; Eyewash bottles should be available.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA).

### **6.2. Environmental precautions:**

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses.
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities.

### **6.3. Methods and material for containment and cleaning up:**

- Do not absorb spillage in sawdust or other combustible material.
- Avoid formation of dust.
- Shut off all ignition sources.
- Take action to prevent static discharges.
- Do not allow to enter public sewers and watercourses.

- Small spills Wipe up spillage with damp absorbent cloth or towel.  
Wash spill site with water and detergent.

- Large spills Evacuate the area and keep personnel upwind.  
Damp down to avoid dust generation.  
Absorb spillage in earth or sand.  
Sweep or shovel-up spillage and remove to a safe place.  
Place in appropriate container.  
Seal containers and label them.  
Remove contaminated material to safe location for subsequent disposal.  
Ventilate the area and wash spill site after material pick-up is complete.

### **6.4. Reference to other sections:**

- See section(s): 7, 8 & 13

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

### **7.1. Precautions for safe handling**

- Read the label before use.
- Prevent formation of dust.
- Take precautionary measures against static discharges.
- If the operator is likely to be exposed to the smoke wear respiratory protection.
- Avoid contact with skin and eyes.
- Do not eat, drink or smoke when using this product.
- Keep away from heat and sources of ignition.
- Avoid contact with acids and alkalis.
- Avoid release to the environment.
- Take off contaminated clothing.
- Contaminated work clothing should not be allowed out of the workplace.
- Contaminated clothing should be laundered before reuse.
- Eyewash bottles should be available.

### **7.2. Conditions for storage, including any incompatibilities**

- Shelf life: 2 years when stored in the original unopened sales container at ambient temperatures.
- Store in a cool, dry well-ventilated place. Keep container tightly closed.
- Keep away from combustible material.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep out of reach of children.

### **7.3. Specific end use**

Insecticide smoke generation pellet.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1. Control parameters**

- For currently recommended monitoring procedures, see HSE series 'Methods for the Determination of Hazardous Substances' (MDHS).
- Occupational exposure to respirable crystalline silica dust should be monitored and controlled.
- Ammonium chloride
  - WEL (long term) 10 mg/m<sup>3</sup> (fume or respirable dust, UK)
  - WEL (short term) 20 mg/m<sup>3</sup> (fume or respirable dust, UK)
  - DNEL (inhalational) 33.5 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
  - DNEL (dermal) 128.9 mg/kg (bw/day) Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 9.4 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
  - DNEL (dermal) 55.2 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - DNEL (oral) 11.4 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - DNEL (oral) 55.2 mg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
  - PNEC aqua (freshwater) 250 - 1 200 ug/l
  - PNEC aqua (intermittent releases, freshwater) 430 - 1 200 ug/l
  - PNEC aqua (marine water) 25 - 11 200 ug/l
  - PNEC (STP) 16.2 mg/l
  - PNEC terrestrial (soil) 163 - 50 700 ug/kg

## 8.2. Exposure controls

- Only use as directed on the label
- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential.
- Respiratory protection
- If the operator is likely to be exposed to the smoke wear suitable respiratory equipment. Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827 and EN 143 particle filter. Where a full face mask respirator is required, use EN 136, with gas/vapour filter EN 14387 type ABEK and particle filter EN 143.

- Skin protection

Wear suitable protective clothing.

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374. The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted. PVC or rubber gloves are recommended.

- Eye/face protection

Wear goggles giving complete eye protection approved to standard EN 166.

- Hygiene measures

Contaminated clothing should be laundered before reuse.

Do not eat, drink or smoke when using this product.

Eyewash bottles should be available.

- Environmental exposure controls

Avoid release to the environment.

Do not empty into drains

Compressed product powder unlikely to be released unless damaged.



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical State:</b>	Yellow / Off-white.
<b>Colour:</b>	Compressed pellet
<b>Odour:</b>	Odourless.
<b>Melting Point:</b>	Not applicable.
<b>Boiling point:</b>	Not applicable.
<b>Flammability:</b>	Powder not classed as flammable. Smoke may be flammable.
<b>Flash-Point:</b>	Does not flash.
<b>Autoignition temperature</b>	Not available
<b>Decomposition temperature:</b>	Not available.
<b>pH-value (quant.):</b>	Not available
<b>Solubility:</b>	Partly soluble in/with water.
<b>Partition coeff. (n-octanol/water):</b>	Not available
<b>Vapour pressure:</b>	Not available.
<b>Density:</b>	Not available
<b>Particle characteristics:</b>	No data available
<b>Oxidizing properties:</b>	Contains an oxidising agent; may assist combustion.
<b>Energy Explosive properties</b>	Not applicable

### 9.2 Other Information:

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<b>Oxidizing properties:</b>	Contains an oxidising agent; may assist combustion.
<b>Energy Explosive properties</b>	Not applicable
No further information available	

## **SECTION 10. STABILITY AND REACTIVITY**

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

### 10.2 Chemical stability

- Considered stable under normal conditions.

### 10.3 Possibility of hazardous reactions

- Reacts with combustible material.
- Reacts with acids liberating toxic gas (chlorine).

### 10.4 Conditions to avoid

- Avoid formation of dust.
- Keep away from heat and sources of ignition.
- Keep away from static electricity.

### 10.5 Incompatible materials

- Incompatible with strong acids.
- Incompatible with alkalis (strong bases).
- Incompatible with halogenated substances.

### 10.6 Hazardous decomposition products

- Decomposition products may be toxic.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### - Acute Toxicity

Harmful if swallowed.

Classification based on calculation and concentration thresholds.

#### - Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### - Serious eye damage/irritation

Causes serious eye damage.

Classification based on calculation and concentration thresholds.

#### - Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

#### - Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### - Carcinogenicity

Based on available data, the classification criteria are not met.

#### - Reproductive toxicity

No evidence of reproductive effects

#### - Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

#### - Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

#### - Aspiration hazard

Based on available data, the classification criteria are not met.

#### - Contact with eyes

Causes serious eye damage. May cause severe damage with formation of corneal ulcers and permanent impairment of vision. Causes redness and swelling.

#### - Contact with skin

No effects anticipated but may cause redness and irritation.

## **SECTION 11. TOXICOLOGICAL INFORMATION (....)**

- Ingestion  
Harmful if swallowed  
Can form methaemoglobin in the blood, causing cyanosis

- Inhalation  
No effects anticipated but may cause coughing and tightness of chest.

### **11.2 Information on other hazards**

-No further information

## **SECTION 12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

- Toxic to aquatic life with long lasting effects.  
- Classification based on calculation and concentration thresholds.

- Cypermethrin  
LC50 (fish) 0.69µg/L  
EC50 (Daphnia) 0.15µg/L  
EC50 (Algae) 0.1 mg/L

- Ammonium chloride  
LC50 (fish) 42.91 - 209 mg/l (4 days)  
EC50 (aquatic invertebrates) 101 - 136.6 mg/l (48 hr)  
EC50 (aquatic algae) 2.7 g/l (18 days)

### **12.2 Persistence and degradability**

- Potassium chlorate Biodegradable

### **12.3 Bio accumulative potential**

- Chlorate is converted to chlorite in plants, which accumulates in cells until toxic concentrations are reached, when the plant dies

### **12.4 Mobility in soil**

- No information available

### **12.5 Results of PBT and vPvB assessment**

- Data not available for all constituent components

### **12.6 Endocrine disrupting properties**

- No information available

### **12.7 Other adverse effects**

- No information available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **13.1. WASTE TREATMENT METHODS**

- Do not discharge into drains or the environment, dispose to an authorised waste collection point  
- Dispose of product and packaging in accordance with national waste regulations.  
- This material and/or its container must be disposed of as hazardous waste.

### **13.2 Classification**

- The waste must be identified according to the List of Wastes (2000/532/EC).  
- Hazardous Property Code(s): HP 4 Irritant; HP 6 Acute Toxicity; HP 14 Ecotoxic



## **SECTION 14. TRANSPORT INFORMATION**

**\*Cypermethrin pellets and packaging are subject to special provisions (ADR 375 / ICAO A197) and therefore neither Limited Quantity markings or any other markings are required)**

### **14.1 UN number**

- UN No.: 3077

### **14.2 UN proper shipping name**

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPERMETHRIN MIXTURE)

### **14.3 Transport hazard class(es)**

- Hazard Class: 9

### **14.4 Packing group**

- Packing Group: III

### **14.5 Environmental hazards**

- Yes

### **14.6 Special precautions for user**

- Refer to sections 4 -8

### **14.7 Maritime transport in bulk according to IMO instruments**

- Not applicable

### **14.8 Road/Rail (ADR/RID)**

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPERMETHRIN MIXTURE)

- ADR UN No.: 3077

- ADR Hazard Class: 9

- ADR Packing Group: III

### **14.9 Sea (IMDG)**

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPERMETHRIN MIXTURE)

- IMDG UN No.: 3077

- IMDG Hazard Class: 9

- IMDG Pack Group.: III

### **14.10 Air (ICAO/IATA)**

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPERMETHRIN MIXTURE)

- ICAO UN No.: 3077

- ICAO Hazard Class: 9

ICAO Packing Group: III

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## **SECTION 15. REGULATORY INFORMATION**

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2020/878.

- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

- The COSHH Regulations apply in the UK.

### **15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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## SECTION 16. OTHER INFORMATION

Information contained in this data sheet is accurate to the best of our knowledge and belief and is given in good faith. It is intended to describe our product from the point of view of safety requirements and is not intended to guarantee any particular properties.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 4.0. Revised July 2024.

Changes made: Revised to update following Potassium chlorate classification change

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Dam. 1, H318: Classification based on calculation and concentration thresholds

Acute Tox. 4, H302: Classification based on calculation and concentration thresholds

Aquatic Chronic 2, H411: Classification based on calculation and concentration thresholds

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H271: May cause fire or explosion, strong oxidiser
- H301: Toxic if swallowed
- H319: Causes serious eye irritation
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H372: Causes damage to organs through prolonged or repeated exposure
- H410: Very toxic to aquatic life with long lasting effects.

Acronyms

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC50: Effective Concentration, 50%
- GHS: Globally Harmonised System
- IARC: International Agency for Research on Cancer
- IC50: Half-maximal inhibitory concentration
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- NOEC: No observed effect concentration
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

Previous revisions should be destroyed.

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