

SAFETY DATA SHEET according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier:**

Trade name: Insecto Moth Smoke Bomb
UFI code: 8V00-X0KU-D00K-060S

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

Consumer use.

Uses advised against:

Do not use for purposes other than those stated in "Recommended uses"

1.3 Details of the supplier of the safety data sheet

Lodi UK Limited
Unit 104, Potter Space
7 Kidderminster Road
Cutnall Green
Droitwich
WR9 0NS
UNITED KINGDOM
Tel: +44 (0) 1384 404242 (office hours only)
Emergency Tel: +44 (0) 1384 404242 (office hours only)
E-mail: sales@lodi-uk.com
www: <https://www.lodi-uk.com>

1.4 Emergency telephone number**Emergency information services / official advisory body:**

Healthcare professionals: National Poisons Information Service (NPIS) – 0344 892 0111

General public:

England - Dial 111 to reach NHS 111 (24- hour service)

Scotland - Dial 111 to reach NHS 24 (24- hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24- hour service).

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) 1272/2008 (CLP) and its amendments**

Acute Toxicity, Oral Category 4 (H302)

Skin sensitization Category 1 (H317)

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400). Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410)

2.2 Label elements**Labeling according to Regulation (EC) 1272/2008 (CLP) and its amendments**

Hazard pictograms:



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Signal word:
WARNING
Hazard statements:

H302 Harmful if swallowed
 H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects

Precautionary statements:

P261 Avoid breathing dust /smoke
 P273 Avoid release to the environment.
 P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water
 P501 Dispose of contents/container in accordance with local / regional / international regulations.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under Annex XIII of the Regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under Annex XIII of the Regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients
3.1 Substance

Not applicable.

3.2 Mixture

Chemical name	Concentration	CAS No	EC No Index No Reg No	Classification	SCL /M-Factor /ATE	REACH Registration Number	WEL /OEL
Permethrin* (permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate≥93%)	14.4% @>93% purity Target 13.5% (Pure content)	52645-53-1	258-067-9	Acute Tox. 4, H332 Acute Tox. 4. H302 Skin SE. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M Factor (Acute) = 100 M Factor (Chronic) = 10000	-	No
Potassium chlorate	10-20% w/w	3811-04-9	223-289-7	Ox. Liq. 1. H271; Acute Tox.3. H301;		01-2119494917-18-xxxx	No
Talc**	50-55%	14807-96-6	238-877-9	Non-hazardous		Reach exempt	Yes

*The active ingredient manufactured by Tagros has a total Permethrin content of ≥93%; the finished product contains 13.5% Permethrin.

**Substance with a workplace exposure limit.

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SECTION 4: First aid measures

4.1 Description of first aid measures

In case of 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

In case of 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.

In case of ingestion:

Rinse mouth with water (do not swallow).

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

Do NOT induce vomiting. Get medical advice/attention.

In case of 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.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

Causes redness and swelling.

Contact with skin

May cause an allergic reaction, redness and irritation.

In cases of severe exposure, blistering of the skin may develop.

Ingestion

Can form methaemoglobin in the blood, causing cyanosis.

May cause burns to mouth and throat.

May cause stomach pain.

May cause nausea/vomiting.

There may be bleeding from the mouth or nose.

Inhalation

May cause shortness of breath.

May cause coughing and tightness of chest.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting 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 substance or mixture

- Ignites readily.
- Contains an oxidising agent; may assist combustion.
- May form explosive dust/air mixtures.
- Gives off irritating or toxic fumes (or gases) in a fire.

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

5.3 Advice for firefighters

- 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/fume/gas/mist/vapours/spray; 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

For further information refer to sections 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 exposure to smoke is likely than wear suitable respiratory equipment.

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- 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 safe 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(s)

Insecticidal smoke generator.

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).

-Permethrin

PNEC aqua (freshwater) 0.00047 ug/l

PNEC (STP) 0.00495 mg/l

PNEC terrestrial (soil) >0.0876 mg/kg

Workplace Exposure Limits (WEL) for talc: UK 1 mg/m³

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential.

- Respiratory protection

If exposure to smoke is likely than 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 & Eye protection

Wear suitable protective clothing.

- 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



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Powder in a plastic or metal pot
Colour	Off-white
Odour	Odourless
Melting point	Not applicable
Boiling point	Not applicable
Flammability	Powder not flammable. Smoke may be flammable
Flash point	Does not flash
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Solubility	Partly soluble in/with water
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure:	Not available
Particle characteristics	Not available
Minimum Ignition temp	Not available.
Minimum Ignition	Not available
Oxidizing properties	Contains an oxidising agent; may assist combustion.
Energy Explosive properties	Not applicable

9.2 Other information

Oxidizing properties: Contains an oxidising agent; may assist combustion.
No additional 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 when in use.
- 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 include oxygen, ammonium chloride, carbon oxides, nitrogen oxides, ammonia, hydrocyanic acid (HCN).

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

(a) acute toxicity:

Harmful if swallowed.

Classification based on calculation and concentration thresholds.

(b) skin corrosion/irritation:

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

(c) serious eye damage/irritation:

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

(d) respiratory or skin sensitisation:

May cause an allergic skin reaction.

Classification based on calculation and concentration thresholds

(e) germ cell mutagenicity:

Based on available data, the classification criteria are not met

(f) carcinogenicity:

Based on available data, the classification criteria are not met

(g) reproductive toxicity:

No evidence of reproductive effects

(h) STOT-single exposure:

Based on available data, the classification criteria are not met

(i) STOT-repeated exposure:

Based on available data, the classification criteria are not met

(j) aspiration hazard:

Based on available data, the classification criteria are not met

- Contact with eyes

May cause redness and swelling.

- Contact with skin

May cause an allergic reaction, redness and irritation.

In cases of severe exposure, blistering of the skin may develop.

- Ingestion

Can form methaemoglobin in the blood, causing cyanosis

May cause stomach pain.

May cause nausea/vomiting.

- Inhalation

Causes shortness of breath.

May cause coughing and tightness of chest

11.2 Information on other hazards:

No further information.

SECTION 12: Ecological information

12.1. Toxicity

- Very toxic to aquatic life with long lasting effects.

- Classification based on calculation and concentration thresholds.

-Permethrin

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LC50 (fish) 8.9 g/l (4 days)
EL50 (aquatic invertebrates) 0.00127mg/l (48 hr)
EL50 (aquatic algae) >1.13mg/l (72 hr)

12.2. Persistence and degradability

- Potassium chlorate Biodegradable
- Permethrin Not readily biodegradable in water

12.3. Bioaccumulative 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 additional information available

12.5. Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6. Other adverse effects

Endocrine disrupting properties - 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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

***Permethrin generators 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. (PERMETHRIN MIXTURE)

14.3. Transport hazard class(es)

Hazard class: 9

14.4. Packing group

Road/Rail (ADR/RID)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)
- ADR UN No.: 3077
- ADR Hazard Class: 9
- ADR Packing Group: III

Sea (IMDG)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)
- IMDG UN No.: 3077
- IMDG Hazard Class: 9
- IMDG Pack Group.: III

SAFETY DATA SHEET according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2015/830**Air (ICAO/IATA)**

ICAO Packing Group: III- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(PERMETHRIN MIXTURE)

- ICAO UN No.: 3077

- ICAO Hazard Class: 9

- ICAO Packing Group: III

14.5. Environmental hazards

Yes

14.6. Special precautions for user

Refer to sections 4-8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17): **Not applicable**

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation: **Not applicable**

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain-: **Not applicable**

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: **Not applicable**

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors: Component Potassium chlorate

UK REACH List of substances subject to authorisation (Annex XIV): **Not applicable**

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation: Potassium chlorate & Permethrin

Control of Major Accident Hazards Regulations 2015 (COMAH) E1 ENVIRONMENTAL HAZARDS

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control):

Not applicable

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

This safety data sheet has been prepared in compliance with Regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567 and Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

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.

Classification and procedure used to derive the classification for mixtures according to REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567:

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

Sens Skin. 1. H317: Classification based on calculation and concentration thresholds

Aquatic Acute 1, H400: Classification based on calculation and concentration thresholds

Aquatic Chronic 1, H410: 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

- H332: Harmful if inhaled

- H372: Toxic if swallowed

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Abbreviations and acronyms:

- ATE: Acute Toxicity Estimates
- 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