



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

Section 1: Identification of the substance/ mixture and of the company/undertaking

- 1.1 Product Identifier** PHOBI SMOKE PRO 90
- 1.2 Use of the substance/ mixture:** Insecticide
- 1.3 Details of the supplier of the Safety Data sheet**
Lodi UK Ltd
Building 69, Third Avenue, Pensnett Trading Estate,
Kingswinford, West Midlands. DY6 7FD
Phone +44 1384 404 242
Fax +44 1384 404 656
Website www.lodi-uk.com

1.4 Emergency phone (24 hours): + 44 7885 561137 (24h)

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

Classified as hazardous according to the criteria of regulation (EC) No 1272/2008 and 1999/45/EC

Classification according to Regulation (EC) No 1272/2008

Physical hazard

Highly Flammable

Health hazards:

Harmful if inhaled

A cholinesterase inhibitor.

Do not use if under medical advice not to work with such compounds.

Hazards for the environment:

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Classification according to directive 1999/45/EC:

Physical hazard

Highly Flammable

Health hazards:

Harmful by inhalation

A cholinesterase inhibitor.

Do not use if under medical advice not to work with such compounds.

Hazards for the environment:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

Keeping to the disposal, see section 13 and national and local regulations.

2.2 Label elements:

Label in accordance with Regulation (EC) No 1272/2008

Signal word: Warning



Hazard statements

- | | |
|------|---|
| H228 | May cause fire or explosion; strong oxidizer |
| H332 | Harmful if inhaled |
| H400 | Very toxic to aquatic life (not required for label) |
| H410 | Toxic to aquatic life with long lasting effects |

EUH 401 To avoid risks to human health and the environment, comply with the instructions for use

Precautionary statements

- | | |
|-------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240 | Ground/bond container and receiving equipment |
| P241 | Use explosion-proof electrical/ventilating/light/.../equipment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P370 + P378 | In case of fire: Use ... to extinguish. |
| P264 | Wash ... thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product. |
| P261 | Avoid breathing dust/fume/ gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor/.../if you feel unwell. |
| P273 | Avoid release to the environment. |
| P391 | Collect spillage |
| P501 | Dispose of contents/container to ... |



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

2.3 Other hazards:

The active substance does not fulfill the criteria of a persistent, bioaccumulative and toxic (PBT) substance, nor of a very persistent and very bioaccumulative (vPvB) substance, as outlined in Annex XIII of Regulation (EU) No 453/2010.

Section 3: Composition/information on ingredients

3.2 Substance:

Not relevant

3.2 Mixtures:

Chemical name	CAS-no. (EC-No)	Concentration (%w/w)	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008
pirimiphos-methyl	29232-93-7 (249-528-5)	24.63	R10 Xn; R22 N: R50-53	Flamm. Liq. 3 H226 Acute Tox 4* H302 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
potassium chlorate	3811-04-9 (223-289-7)	16.47	O; R9 Xn; R20/22 N; R53	Ox. Sol. 1 H271 Acute Tox. 4 * H302 Acute Tox. 4 * H332 Aquatic Chronic 2 H411

For full text of R-phrases and/or Hazard-statements see section 16.

Section 4: First aid measures

4.1 General information:

KEEP STRICTLY AT REST AS CONTINUED MOVEMENT ENHANCES THE EFFECT OF CHOLINESTERASE INHIBITION.

4.2 Most important symptoms and effects both acute and delayed

Harmful by inhalation

Harmful: danger of serious damage to health by prolonged exposure through inhalation

4.3 Indication of any immediate medical attention and special treatment needed:

4.3.1 In case of inhalation:

Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution

4.3.2 In case of skin contact:

Immediately take off all contaminated clothing.

Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be laundered before re-issue.

4.3.3 In case of eye contact:

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

minutes. Obtain immediate medical attention

4.3.4. In case of ingestion

If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible. Do not induce vomiting.

4.3.5 Notes for physician

Atropine is the specific antidote and may be given immediately by qualified staff, at a level of 2–5 mg (intramuscularly), every 20 minutes until atropinisation occurs. Considerable amounts of atropine may be necessary. Atropine MUST NOT be given to cyanosed patients; administer oxygen first. DO NOT use opiates or barbiturates. If convulsions occur, administer diazepam (10 mg intravenously). Take 10 mL of venous blood for determination of blood cholinesterase activity.

Cholinesterase reactivators (Pralidoxime) should, if possible, be given at the same time as atropine. They are not effective after 24 hours post exposure and are not substitutes for atropine.

DOSES: Pralidoxime;

Mild poisoning: 1 g in 2–3 mL water (intramuscularly).

Severe poisoning: 2 g in 30 mL water (intravenously)

Following ingestion, adsorbents such as charcoal may be of value. If gastric lavage or emesis is considered necessary for oil-based or corrosive formulations, inhalation of gastric contents must be prevented.

Section 5: Fire-fighting measures

5.1 Extinguishing media:

For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

5.2 Special hazards arising from the substance or mixture:

Highly flammable. Ignites readily.

Oxidising agent; may assist combustion. Keep fire exposed containers cool by spraying with water.

5.3 Advice for firefighters:

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure suitable personal protection during removal of spillages.

This means wearing a face mask that gives protection against toxic dusts, eye protection, chemically resistant gloves (e.g. 0.6 mm nitrile), boots and coveralls. See also section 8.

6.2 Environmental precautions:

Keep the area isolated and do not allow contamination to enter the sewerage system.

If the product has entered the sewerage system or contaminated a public place advise the appropriate authority.

6.3 Methods and material for containment and cleaning up:

Cover spillage with moist sand or soil. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Spillages or



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.4 Reference to other sections:

Information to safety handling, see section 7.

Information to disposal considerations, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Read the label before use.

Do not breathe smoke. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from frost.

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

7.3: Specific end use(s)

Insecticide

Section 8: Exposure controls / Personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

No information

8.1.2 Additional exposure limits:

Not determined

8.1.3 DNEL/DMEL and PNEC-data:

Not available

8.2 Exposure controls

Occupational exposure limits; Hazardous ingredients; Not applicable to field use.

Pirimiphos-methyl SYNGENTA Standard, 8 hr TWA, 3 mg/m³. Sk: Can be absorbed through skin.

Not applicable to field use

8.2.1 Personal protection equipment:

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment.

Respiratory protection: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. Respiratory protective equipment should conform to the appropriate EN standard

Eye protection: Wear suitable eye/face protection conforming to EN 166

Hand protection: Wear suitable gloves conforming to EN 374.



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

Skin and body protection: Wear suitable protective clothing

Other Information:

No further information available

8.2.2 Environmental exposure controls:

No further information available

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Colour:	Off-white
Physical State:	Powder in aluminium container
Odour:	Distinctive
Melting Point:	Not applicable.
Flash-Point:	Does not flash
Autoignition Temperature:	Not available
Minimum Ignition Temp:	450 to 500°C
Minimum Ignition:	> 500 mJ
Oxidizing Properties:	Oxidising agent; may assist combustion
Energy Explosive Properties:	Not applicable
Vapour Pressure:	Not available
Solubility:	Partly soluble in/with water
pH-value (quant.):	Not available
Partition Coeff.:	Not available
Density:	Not available.

9.1 Other information

None

Section 10: Stability and reactivity

10.1 Reactivity

No information available

10.2 Chemical stability

No Information available

10.3 Possibility of hazardous reactions:

No information available

10.4 Conditions to avoid:

Toxic and irritant vapours

10.5 Incompatible materials



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

No information available

10.6 Hazardous decomposition products:

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: Toxicological information

11.1 Information to toxicological effects

11.1.1 Acute oral toxicity:

LD50 > 2000 mg/kg (limit dose)

Low oral toxicity

11.1.2 Acute dermal toxicity:

LD50 > 2000 mg/kg (limit dose).

Unlikely to be hazardous by skin absorption

11.1.3 Acute inhalative toxicity:

LC50 rat (male): 3.4 mg/l, 4 hours.

LC50 rat (female): 3.22 mg/l, 4 hours

Harmful by inhalation. Smoke may cause irritation

11.1.4 Sensitisation:

Unlikely to cause skin sensitisation

11.1.5 Irritation:

Unlikely to cause skin irritation

11.1.6 Eye contact:

May cause eye irritation

11.1.7 Other:

Long Term Exposure: No long term risks to man are associated with this material when handled and used as directed on the label

Section 12: Ecological information

This ecological assessment is calculated from data available on the components of the formulation.

12.1 Toxicity:

Aquatic toxicity:

Toxic to fish

LC50: approx 3 mg/L (Rainbow trout 96 h)

Toxicity to algae

ErC50: approx 22 mg/L (green alga 96 hours)

EbC50: approx 4 mg/L (green alga 96 hours)

Toxicity to aquatic invertebrates

EC50: approx 1 µg/L (*Daphnia magna* (water flea); 48 h),

Toxic to aquatic organisms.

12.2 Persistence and degradability:

Information applies to Pirimiphos-methyl: There is evidence of hydrolysis in water and soil.

12.3 Bioaccumulative potential:

No further information

12.4 Mobility in soil:

Information applies to Pirimiphos-methyl: The substance has low mobility in soil

12.5 Results of PBT and vPvB assessment

No further information

12.6 Other adverse effects

No further information

Section 13: Disposal considerations

13.1 Waste treatment methods:

Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the 'Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm' GCPF, 1987.

Empty containers should be washed and discarded. Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation

Section 14: Transport information

14.1. UN number	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (PIRIMIPHOS-METHYL MIXTURE)
14.3. Transport hazard class	9
14.4. Packing group	III
14.5. Environmental hazards	Environmentally hazardous substance
14.6. Special precautions for user	see section 8



Smoke PRO 90

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

14.7. Transport in bulk

Land transport (ADR/RID/GGVSE):

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.,
(PIRIMIPHOS-METHYL MIXTURE)
UN Number: 3077
Class: 9
Packaging group: III

Inland waterways

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S.,
(Pirimiphos-methyl mixture)
UN Number: 3077
Class: 9
Item: 11
Letter: No information
Hazard Identification No.: No information

Sea transport (IMDG-Code/GGVSee):

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S.,
(Pirimiphos-methyl mixture)
UN Number: 3077
Class: 9
Packaging group: III
Marine pollutant: P

Lufttransport (ICAO-IATA/DGR):

Proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S.,
(Pirimiphos-methyl mixture)
UN Number: 3077
Class: 9
Packaging group: III

Section 15: Regulatory information

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

The product has given a signal word 'Warning' in accordance with Regulation (EC) No. 1272/2008
SEVESO category: not known

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out and is not required for the substance or the mixture by the supplier. The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009.

MATERIAL SAFETY DATA SHEET

Version: 001

Date of issue: 12-06-2015

According to Regulation (EU) 453/2010 (REACH)

Section 16: Other information

16.1 –R-phrases and/or Hazard-statements with reference to section 3:

Relevant hazard statements:

- H226 Flammable liquid and vapour
- H302 Harmful if swallowed
- H271 May cause fire or explosion; strong oxidiser
- 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

Relevant R-phrases:

- R9 Explosive when mixed with combustible material
- R11 Highly flammable
- R20 Harmful by inhalation
- R22 Harmful if swallowed
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R53 May cause long-term adverse effects in the aquatic environment

16.2 Other information:

Always read the label. Use pesticides safely.

Product approval number; MAPP 17117

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties