

SAFETY DATA SHEET Mini Fortefog Fumer

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

1.1. Product identifier

Product name

Mini Fortefog Fumer

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

1.3. Details of the supplier of the safety data sheet

Supplier

Agropharm Limited Buckingham Place, Church Road, Penn, High Wycombe Bucks HP10 8LN Tel: +44 (0) 1494 816575 Factory: +44 (0)1952 740333 Fax: +44 (0) 1494 816578 sales@agropharm.co.uk

1.4. Emergency telephone number

+44 (0) 1952 740 333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R20/22. R43. N;R50/53.

Physical and Chemical Hazards

Product burns without a flame to give a dense white harmful smoke.

2.2. Label elements

Contains

PERMETHRIN

Labelling



Harmful

Risk Phrases

Safety Phrases



Dangerous for the environment

R43 R20/22 R50/53	May cause sensitisation by skin contact. Harmful by inhalation and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S16	Keep away from sources of ignition - No smoking.
S20/21	When using do not eat, drink or smoke.
S23	Do not breathe vapour/spray.
S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S57	Use appropriate containment to avoid environmental contamination.

S23

Do not breathe spray. Do not breathe smoke/fumes.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

PERMETHRIN			10-30%
CAS-No.: 052645-53-1	EC No.: 258-067-9		
Classification (EC 1272/2008)		Classification (67/548/EEC)	
Acute Tox. 4 - H302		Xn;R20/22	
Acute Tox. 4 - H332		R43	
Skin Sens. 1 - H317		N;R50/53	
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			
POTASSIUM CHLORATE			10-30%
CAS-No.: 3811-04-9	EC No.: 223-289-7		
Classification (EC 1272/2008)		Classification (67/548/EEC)	
Ox. Sol. 1 - H271		O;R9	
Acute Tox. 4 - H302		Xn;R20/22	
A . I. T. A 11000		N;R51/53	
Acute Tox. 4 - H332			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove affected person from source of contamination. Remove contaminated clothing immediately and dispose of safely.

Inhalation

Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

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

This product contains a Pyrethoid, and MUST NOT be confused with organophosphorus compounds.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use high volume water jet.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

In case of fire the evolution of dangerous gases is possible. Contains potassium chlorate which is classified as an oxidising agent. This will assist combustion in a fire situation.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Containers close to fire should be removed or cooled with water. Dike and collect extinguishing water.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Avoid contact with skin or inhalation of spillage, dust or vapour. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Do not contaminate water sources or sewer.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Avoid inhalation of dust and contact with skin and eyes. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly closed original container in a dry and cool place. Keep away from heat, sparks and open flame.

Storage Class

Keep in pesticide store - product is an insecticide of low toxicity. Physically and chemically stable for at least 2 years when stored in the original, unopened containers at ambient temperatures.

7.3. Specific end use(s)

Usage Description

Pesticide smoke generator.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

When using this product, refer to the label for details. Should it be necessary to enter the treated area whilst smoke remains in the atmosphere, respiratory protective equipment and eye protection must be used (see HSE Guidance Booklet (HS)G53 'Respiratory Protective Equipment - A Practical Guide for Users')

8.2. Exposure controls

Protective equipment



Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	White / off-white.
Odour	Characteristic.
Solubility	Slightly soluble in water.
Auto Ignition Temperature (°C)	>130
9.2 Other information	

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Flammable/combustible material.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

Oral LD50 (rat) 1479 mg/kg Permethrin, Oral LD50 (rat) 1260 mg/kg Potassium Chlorate.

Inhalation

Smoke may cause upper airway irritation.

Ingestion

Burning in mouth, vommiting, nausea, tremors and convulsions may occur.

Skin contact

May cause skin irritation/eczema. May cause sensitisation by skin contact.

Eye contact

May cause temporary eye irritation. **Route of entry** Inhalation. Skin and/or eye contact. Ingestion.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Fish Toxicity

Very toxic to aquatic organisms.	
LC 50, 96 Hrs, Fish mg/l	0.0076
EC 50, 48 Hrs, Daphnia, mg/l	0.00017
IC 50, 72 Hrs, Algae, mg/l	0.497

12.2. Persistence and degradability

Degradability

The product is not readily biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General information

This material and its container must be disposed of in a safe way.

SECTION 14: TRANSPORT INFORMATION

13.1. Waste treatment methods

14.1. UN number UN No. (ADR/RID/ADN) 3077 UN No. (IMDG) 3077 UN No. (ICAO) 3077 14.2. UN proper shipping name ENVIROMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE) **Proper Shipping Name** 14.3. Transport hazard class(es) ADR/RID/ADN Class 9 ADR/RID/ADN Class Class 9: Miscellaneous dangerous substances and articles. IMDG Class 9 ICAO Class/Division 9 **Transport Labels**



ADR/RID/ADN Packing group	Ш	
IMDG Packing group	III	
ICAO Packing group	III	
14.5. Environmental hazards		
14.6. Special precautions for user		

EMS	F-A, S-F
Emergency Action Code	90
Hazard No. (ADR)	90 Environmentally hazardous substance; miscellaneous dangerous substances.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

This product is approved under the Control of Pesticides Regulations 1986. HSE No. 7187.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

General information

This product is approved under the Control of Pesticides Regulations 1986 (as amended). The information contained in this Safety Data Sheet is believed to be true and correct, as of the issue date. The accuracy and completeness of this information and any recommendations, or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use for this product.

Revision Date	24/03/2011
Revision	5
Date	24/03/2011
Risk Phrases In Full	
R9	Explosive when mixed with combustible material.
R20/22	Harmful by inhalation and if swallowed.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard Statements In Full	
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H271	May cause fire or explosion; strong oxidiser.
H411	Toxic to aquatic life with long lasting effects.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

Disclaimer

This 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 a process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



SAFETY DATA SHEET Midi Fortefog Fumer

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1.1. Product identifier

Product name

Midi Fortefog Fumer

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

1.3. Details of the supplier of the safety data sheet

Supplier

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1.4. Emergency telephone number

+44 (0) 1952 740 333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R20/22. R43. N;R50/53.

Physical and Chemical Hazards

Product burns without a flame to give a dense white harmful smoke.

2.2. Label elements

Contains

PERMETHRIN

Labelling



Harmful

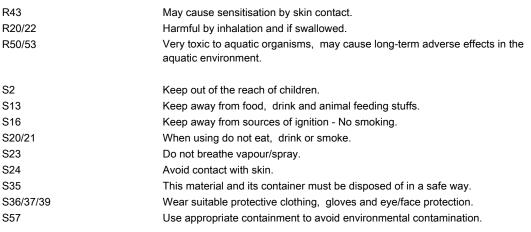
Risk Phrases

R43 R20/22 R50/53

Safety Phrases



Dangerous for the environment



S23

Do not breathe spray. Do not breathe smoke/fumes.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

PERMETHRIN			10-30%
CAS-No.: 052645-53-1	EC No.: 258-067-9		
Classification (EC 1272/2008)		Classification (67/548/EEC)	
Acute Tox. 4 - H302		Xn;R20/22	
Acute Tox. 4 - H332		R43	
Skin Sens. 1 - H317		N;R50/53	
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			
			40.00%
POTASSIUM CHLORATE			10-30%
CAS-No.: 3811-04-9	EC No.: 223-289-7		
Classification (EC 1272/2008)		Classification (67/548/EEC)	
Ox. Sol. 1 - H271		O;R9	
		Xn;R20/22	
Acute Tox. 4 - H302			
Acute Tox. 4 - H302 Acute Tox. 4 - H332 Aquatic Chronic 2 - H411		N;R51/53	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove affected person from source of contamination. Remove contaminated clothing immediately and dispose of safely.

Inhalation

Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

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

This product contains a Pyrethoid, and MUST NOT be confused with organophosphorus compounds.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use high volume water jet.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

In case of fire the evolution of dangerous gases is possible. Contains potassium chlorate which is classified as an oxidising agent. This will assist combustion in a fire situation.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Containers close to fire should be removed or cooled with water. Dike and collect extinguishing water.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Avoid contact with skin or inhalation of spillage, dust or vapour. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Do not contaminate water sources or sewer.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Avoid inhalation of dust and contact with skin and eyes. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly closed original container in a dry and cool place. Keep away from heat, sparks and open flame.

Storage Class

Keep in pesticide store - product is an insecticide of low toxicity. Physically and chemically stable for at least 2 years when stored in the original, unopened containers at ambient temperatures.

7.3. Specific end use(s)

Usage Description

Pesticide smoke generator.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

When using this product, refer to the label for details. Should it be necessary to enter the treated area whilst smoke remains in the atmosphere, respiratory protective equipment and eye protection must be used (see HSE Guidance Booklet (HS)G53 'Respiratory Protective Equipment - A Practical Guide for Users')

8.2. Exposure controls

Protective equipment



Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	White / off-white.
Odour	Characteristic.
Solubility	Slightly soluble in water.
Auto Ignition Temperature (°C)	>130
9.2 Other information	

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Flammable/combustible material.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

Oral LD50 (rat) 1479 mg/kg Permethrin, Oral LD50 (rat) 1260 mg/kg Potassium Chlorate.

Inhalation

Smoke may cause upper airway irritation.

Ingestion

Burning in mouth, vommiting, nausea, tremors and convulsions may occur.

Skin contact

May cause skin irritation/eczema. May cause sensitisation by skin contact.

Eye contact

May cause temporary eye irritation. **Route of entry** Inhalation. Skin and/or eye contact. Ingestion.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Fish Toxicity

Very toxic to aquatic organisms.	
LC 50, 96 Hrs, Fish mg/l	0.0076
EC 50, 48 Hrs, Daphnia, mg/l	0.00017
IC 50, 72 Hrs, Algae, mg/l	0.497

12.2. Persistence and degradability

Degradability

The product is not readily biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General information

This material and its container must be disposed of in a safe way.

SECTION 14: TRANSPORT INFORMATION

13.1. Waste treatment methods

<u>14.1. UN number</u>	
UN No. (ADR/RID/ADN)	3077
UN No. (IMDG)	3077
UN No. (ICAO)	3077
14.2. UN proper shipping name	
Proper Shipping Name	ENVIROMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)
14.3. Transport hazard class(es)	
ADR/RID/ADN Class	9
ADR/RID/ADN Class	Class 9: Miscellaneous dangerous substances and articles.
IMDG Class	9
ICAO Class/Division	9
Transport Labels	



ADR/RID/ADN Packing group	III	
IMDG Packing group	III	
ICAO Packing group	III	
14.5. Environmental hazards		
14.6. Special precautions for user		

EMS	F-A, S-F
Emergency Action Code	90
Hazard No. (ADR)	90 Environmentally hazardous substance; miscellaneous dangerous substances.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

This product is approved under the Control of Pesticides Regulations 1986. HSE No. 7187.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

General information

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Revision Date	24/03/2011
Revision	5
Date	24/03/2011
Risk Phrases In Full	
R9	Explosive when mixed with combustible material.
R20/22	Harmful by inhalation and if swallowed.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard Statements In Full	
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H271	May cause fire or explosion; strong oxidiser.
H411	Toxic to aquatic life with long lasting effects.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

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