



Agropharm

SAFETY DATA SHEET AGROTHRIN

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME AGROTHRIN

PRODUCT NO. FP 5012/5013. HSE 4811.

SUPPLIER Agropharm Limited
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2 HAZARDS IDENTIFICATION

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

CLASSIFICATION R52/53.

ENVIRONMENT

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
PIPERONYL BUTOXIDE ENDURA	200-076-7	51-03-6	1-5%	N;R50/53.
PYRETHRINS INCLUDING CINERINS	232-319-8	8003-34-7	< 1%	Xn;R20/21/22. N;R50/53.
TALC	238-877-9	14807-96-6	60-100%	-

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

Those with a history of allergic dermatitis/asthma/hay fever should not handle pyrethrum based powders.

INHALATION

Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. May cause dryness and irritation to mucous membranes, nose and throat. Symptoms may include coughing, sore throat and wheezing. Seek medical attention if symptoms persist.

INGESTION

Rinse mouth thoroughly and drink plenty of water. Obtain medical advice if discomfort persists.

SKIN CONTACT

Remove contaminated clothing and wash skin with soap and water. Get medical attention if any discomfort continues.

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 if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide, dry powder or water fog.

AGROTHRIN

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours.

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses.

SPILL CLEAN UP METHODS

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid inhalation of dust and contact with skin and eyes.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

STORAGE CLASS

Miscellaneous hazardous material storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
PYRETHRINS INCLUDING CINERINS	WEL		1 mg/m3		
TALC			1 mg/m3		

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No recommendation is given, but respiratory protection maybe required in confined spaces as a dust hazard is present.

HYGIENE MEASURES

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

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust
COLOUR	Grey
ODOUR	Slight odour
SOLUBILITY	Slightly soluble in water.

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Not relevant.

AGROTHRIN**HAZARDOUS POLYMERISATION**

Will not polymerise.

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

Pyrethrins: LD50 rat (oral) 900-2000 mg/kg. LD50 rat (dermal) >1500 mg/kg. Piperonyl Butoxide: LD50 rat (oral) 7500 mg/kg.

INHALATION

Dust may irritate respiratory system or lungs.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Powder may irritate skin.

EYE CONTACT

May cause temporary eye irritation.

12 ECOLOGICAL INFORMATION

ACUTE FISH TOXICITY

Pyrethrum is toxic to aquatic organisms, but product has a low solubility.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

MARINE POLLUTANT

No.

15 REGULATORY INFORMATION

RISK PHRASES

R52/53

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

SAFETY PHRASES

S7

Keep container tightly closed.

S22

Do not breathe dust.

S24

Avoid contact with skin.

S35

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

S49

Keep only in the original container.

S51

Use only in well-ventilated areas.

16 OTHER INFORMATION

GENERAL INFORMATION

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 COMMENTS

Section 1 updated. Section 8 updated. Section 13 updated. Safety phrase update.

ISSUED BY

K. Jones.

REVISION DATE

26/06/2008

REV. NO./REPL. SDS GENERATED 2

AGROTHRIN

DATE 29/09/2006

RISK PHRASES IN FULL

NC	Not classified.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



Agropharm

SAFETY DATA SHEET

PROTECTOR NATURAL INSECT KILLING SPRAY FOR ALL PLANTS

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME PROTECTOR NATURAL INSECT KILLING SPRAY FOR ALL PLANTS

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2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ISO-BUTANOL	201-148-0	78-83-1	< 1%	R10 Xi;R37/38,R41 R67
PIPERONYL BUTOXIDE	200-076-7	51-03-6	< 1%	N;R50/53.
PYRETHRINS INCLUDING CINERINS	232-319-8	8003-34-7	< 1%	Xn;R20/21/22. N;R50/53.

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Fresh air.

INGESTION

Drink plenty of water. Give milk instead of water if readily available.

SKIN CONTACT

Wash the skin immediately with soap and water.

EYE CONTACT

Rinse the eye with water immediately. Get medical attention promptly if symptoms occur after washing.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Fire can be extinguished using: Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Not relevant.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Small quantities may be flushed to drains with plenty of water. Large Spillages Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

PROTECTOR NATURAL INSECT KILLING SPRAY FOR ALL PLANTS**USAGE PRECAUTIONS**

Avoid inhalation of vapours.

STORAGE PRECAUTIONS

Protect from light, including direct sunrays. Keep above the chemical's freezing point to avoid rupturing the container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
ISO-BUTANOL	WEL	50 ppm	154 mg/m3	75 ppm	231 mg/m3
PYRETHRINS INCLUDING CINERINS	WEL		1 mg/m3		

ENGINEERING MEASURES

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORY EQUIPMENT

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

HAND PROTECTION

No specific hand protection noted, but gloves may still be advisable.

EYE PROTECTION

No specific eye protection noted, but may be required anyway.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Mobile Liquid				
COLOUR	Bluish.				
SOLUBILITY	Miscible with water.				
RELATIVE DENSITY	1.0 @ 20 °c	FLASH POINT (°C)	Not flammable		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Not relevant.

HAZARDOUS POLYMERISATION

Will not polymerise.

HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 > 10000 mg/kg (oral rat)

GENERAL INFORMATION

This product has low toxicity. Only large volumes may have adverse impact on human health.

INHALATION

Gas or vapour in high concentrations may irritate respiratory system.

INGESTION

No specific health warnings noted.

SKIN CONTACT

No specific health warnings noted.

EYE CONTACT

Spray and vapour in the eyes may cause irritation and smarting.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Little danger to the environment.

PROTECTOR NATURAL INSECT KILLING SPRAY FOR ALL PLANTS**13 DISPOSAL CONSIDERATIONS**

DISPOSAL METHODS

No specific disposal method required.

14 TRANSPORT INFORMATION

GENERAL	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
	No transport warning sign required.	
MARINE POLLUTANT	No.	

15 REGULATORY INFORMATION

RISK PHRASES	NC	Not classified.
SAFETY PHRASES	NC	Not classified.

16 OTHER INFORMATION

GENERAL INFORMATION

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 COMMENTS

Section 1 updated. Section 8 updated.

ISSUED BY

K. Jones.

REVISION DATE 26/06/2008

DATE 26/02/2008

RISK PHRASES IN FULL

R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

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 any 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.



Agropharm

SAFETY DATA SHEET MIDI FORTEFOG P FUMER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME MIDI FORTEFOG P FUMER

SUPPLIER Agropharm Limited
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2 HAZARDS IDENTIFICATION

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.

CLASSIFICATION Xn;R20/22. R43. N;R50/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
PERMETHRIN	258-067-9	052645-53-1	10-30%	Xn;R20/22 R43 N;R50/53
POTASSIUM CHLORATE	223-289-7	3811-04-9	10-30%	O;R9 Xn;R20/22 N;R51/53

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

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

NOTES TO THE PHYSICIAN

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

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.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

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

SPECIAL FIRE FIGHTING PROCEDURES

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

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.

MIDI FORTEFOG P FUMER

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

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.

SPILL CLEAN UP METHODS

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.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Does not require specific handling. Avoid inhalation of dust, or contact with eyes, as dusty material. Do not eat, drink or smoke when using the product.

USAGE DESCRIPTION

Pesticide smoke generator.

STORAGE PRECAUTIONS

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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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')

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No recommendation is given, but respiratory protection maybe required in confined spaces or on entering treated area immediately after application.

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 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder
COLOUR	White / off-white
ODOUR	Characteristic
SOLUBILITY	Slightly soluble in water.
AUTO IGNITION	>130
TEMPERATURE (°C)	

MIDI FORTEFOG P FUMER**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid exposure to high temperatures or direct sunlight.

MATERIALS TO AVOID

Flammable/combustible material.

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION**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, vomiting, nausea, tremors and convulsions may occur.

SKIN CONTACT

Sensations of transient skin irritation may occur.

EYE CONTACT

Transient eye irritation may occur.

ROUTE OF ENTRY

Inhalation, skin contact and ingestion.

12 ECOLOGICAL INFORMATION

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

DEGRADABILITY

Not readily bio-degradable.

ACUTE FISH TOXICITY

Very toxic to aquatic organisms.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

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

14 TRANSPORT INFORMATION

UK ROAD CLASS

9

PROPER SHIPPING NAME

ENVIROMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)

UN NO. ROAD

3077

UK ROAD PACK GR.

III

ADR CLASS NO.

9

ADR CLASS

Class 9: Miscellaneous dangerous substances and articles.

ADR PACK GROUP

III

MIDI FORTEFOG P FUMER

HAZARD NO. (ADR)	90 Environmentally hazardous substance; miscellaneous dangerous substances.	HAZCHEM CODE	90
CEPIC TEC(R) NO.	90GM7-III	RID CLASS NO.	9
RID PACK GROUP	III	UN NO. SEA	3077
IMDG CLASS	9	IMDG PACK GR.	III
EMS	F-A, S-F	MARINE POLLUTANT	



UN NO. AIR	3077	AIR CLASS	9
AIR PACK GR.	III		

15 REGULATORY INFORMATION

LABELLING



Harmful



Dangerous for the environment

CONTAINS PERMETHRIN

RISK PHRASES

R20/22	Harmful by inhalation and if swallowed.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

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 smoke/fumes.
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.

UK REGULATORY REFERENCES

This product is approved under the Control of Pesticides Regulations 1986 HSE No. 8577.

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 COMMENTS

Safety phrase update.

ISSUED BY

K. Jones.

REVISION DATE 03/07/2008

REV. NO./REPL. SDS GENERATED 2

DATE 16/11/2007

MIDI FORTEFOG P FUMER**RISK PHRASES IN FULL**

R20/22	Harmful by inhalation and if swallowed.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R9	Explosive when mixed with combustible material.

DISCLAIMER

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