REVISION DATE: 16/11/2007



SAFETY DATA SHEET PROTECTOR NATURAL INSECT KILLER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME PROTECTOR NATURAL INSECT KILLER

SUPPLIER Agropharm Limited

Buckingham Place, Church Road, Penn, High Wycombe

Bucks HP10 8LN

Tel: +44 (0) 1494 816575 Factory: 01952 740333 Fax: +44 (0) 1494 816578

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DODECYLBENZENE SULPHONATE CALCIUM SALT			1-5%	Xi;R36/38.
ISO-BUTANOL	201-148-0	78-83-1	< 1%	R10 Xi;R37/38,R41 R67
ODOURLESS KEROSINE	294-799-5	91770-15-9	1-5%	Xn;R65.
PIPERONYL BUTOXIDE	200-076-7	51-03-6	1-5%	N;R50/53.
PYRETHRINS INCLUDING CINERINS			< 1%	Xn;R20/21/22 N;R50/53

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

3 HAZARDS IDENTIFICATION

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

CLASSIFICATION R52/53.

4 FIRST-AID MEASURES

GENERAL INFORMATION

This product contains a low concentration of a pyrethroid insecticide, which is less harmful than the solvent carrier. Local contamination: Causes skin and eye irritation. Repeated contamination may give rise to allergenic reactions and people with a history of asthma or skin problems should avoid use or exposure.

NOTES TO THE PHYSICIAN

This product does NOT contain an organophosphorus or carbamate compound - atropine should NOT be used. Treatment is symptomatic. Recovery is normally spontaneous.

INHALATION

Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention.

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

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

PROTECTIVE MEASURES IN FIRE

Do not breathe fumes. Wear self contained breathing apparatus. Contain fire water by bunding area with sand or earth.

PROTECTOR NATURAL INSECT KILLER

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid contact with spilled material or contaminated surfaces. Wear rubber or PVC gloves

ENVIRONMENTAL PRECAUTIONS

Keep people and animals away. Prevent entry into drains, sewers and watercourses. If contamination of resources occurs contact appropriate authorities (Fire Service)

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Persons susceptible for allergic reactions should not handle this product. Avoid inhalation of vapours/spray and contact with skin and eyes.

STORAGE PRECAUTIONS

Store in original containers in a secure, dry area designated for pesticides.

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

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Chemical resistant gloves required for prolonged or repeated contact.

EYE PROTECTION

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

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

9 PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY Immiscible with water Soluble in Organic solvents

DECOMPOSITION TEMPERATURE ~180 FLASH POINT (°C) ~ 65 P/M Pensky-Martens.

(°C)

AUTO IGNITION 450

TEMPERATURE (°C)

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 > 4000 mg/kg (oral rat)

GENERAL INFORMATION

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

INHALATION

May cause irritation to the respiratory system.

INGESTION

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

SKIN CONTACT

Slightly irritating.

EYE CONTACT

Irritation of eyes and mucous membranes.

PROTECTOR NATURAL INSECT KILLER

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

ACUTE FISH TOXICITY

Toxic to fish.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Absorb in vermiculite or dry sand, dispose in licensed hazardous waste. Do not allow runoff to sewer, waterway or ground.

14 TRANSPORT INFORMATION

GENERAL This product is classified as NOT HAZARDOUS FOR TRANSPORT.

UN NO. ROAD N/A

15 REGULATORY INFORMATION

RISK PHRASES

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

SAFETY PHRASES

S56 Dispose of this material and its container to hazardous or special waste collection point.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988. Control of Pesticides Regulations 1986.

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 DATE 16/11/2007

DATE 16/11/2007

RISK PHRASES IN FULL

R10 Flammable

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

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.

R65 Harmful: may cause lung damage if swallowed.
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.

REVISION DATE: 26/06/2008



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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EMERGENCY TELEPHONE +44 (0) 1952 740 333

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 dematitis/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

 $\label{thm:continuous} \mbox{Rinse mouth thoroughly and drink plenty of water. Obtain medical advice if \ discomfort persists.}$

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.

REVISION DATE: 26/06/2008

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

REVISION DATE: 26/06/2008

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 N

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

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.



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 Pyrethoid, 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, vommiting, 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

0.0076 LC 50, 96 Hrs, FISH mg/l 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

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

UN NO. ROAD 3077 UK ROAD PACK GR.

ADR CLASS NO. ADR CLASS Class 9: Miscellaneous 9 dangerous substances and

articles.

ADR PACK GROUP Ш REVISION DATE: 03/07/2008 REV. NO./REPL. SDS GENERATED: 2

MIDI FORTEFOG P FUMER

HAZARD NO. (ADR) 90 Environmentally hazardous HAZCHEM CODE 90

substance; miscellaneous

dangerous substances.

 CEFIC 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.

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

REVISION DATE: 03/07/2008 REV. NO./REPL. SDS GENERATED: 2

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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