

SAFETY DATA SHEET

FORTEFOG P FUMER

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

1.1. Product identifier

Product name FORTEFOG P FUMER

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

Identified uses Pesticide

Uses advised against No specific uses advised against are identified.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification
(EC/1272/2008)

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Human health May cause skin sensitisation or allergic reactions in sensitive individuals.

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

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

2.2. Label elements

Pictogram



Signal word Warning

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Hazard statements	H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P261 Avoid breathing vapour/ spray. P501 Dispose of contents/ container in accordance with national regulations. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep/ Store away from clothing/ combustible materials. P270 Do not eat, drink or smoke when using this product. P264 Wash contaminated skin thoroughly after handling. P332+P313 If skin irritation occurs: Get medical advice/ attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P273 Avoid release to the environment. P391 Collect spillage. P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
Contains	PERMETHRIN

2.3. Other hazards

Not known

SECTION 3: Composition/information on ingredients

3.2. Mixtures

PERMETHRIN		10-30%
CAS number: 52645-53-1	EC number: 258-067-9	
M factor (Acute) = 1000	M factor (Chronic) = 1000	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
POTASSIUM CHLORATE		10-30%
CAS number: 3811-04-9	EC number: 223-289-7	
Classification Ox. Sol. 1 - H271 Acute Tox. 4 - H302 Acute Tox. 4 - H332 Aquatic Chronic 2 - H411		

The full text for all hazard statements is 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.
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Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. If feeling unwell, seek medical attention. Do not induce vomiting.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. 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

Notes for the doctor May cause an allergic reaction. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media High volume water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire: In case of fire, toxic gases may be formed.

Hazardous combustion products Does not decompose when used and stored as recommended.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water. Contain and collect extinguishing water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for 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 and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

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. 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)

The identified uses for this product are detailed in Section 1.2.

Specific end use(s)

Pesticide smoke generator.

Usage description

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

TALC

Long-term exposure limit (8-hour TWA): 1 mg/m³

Distillates (Petroleum) TWA (Non-Aerosol)

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

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

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

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Powder

Colour

White/off-white.

Odour

Characteristic.

Solubility(ies)

Slightly soluble in water.

Auto-ignition temperature

>130°C

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9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known. No potentially hazardous reactions known.

10.4. avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.
Incompatible

10.5. materials

Materials to avoid Flammable/combustible materials.
Hazardous decomposition

10.6. products

Hazardous decomposition products Oxides of carbon. 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 effects Oral LD50 (rat) 480 mg/kg Permethrin,
Oral LD50 (rat) 1200 mg/kg Potassium Chlorate.

Acute toxicity - oral

ATE oral (mg/kg) 2,656.34

Acute toxicity - dermal

ATE dermal (mg/kg) 15,255.53

Acute toxicity - inhalation

ATE inhalation (gases ppm) 36,290.32

ATE inhalation (vapours mg/l) 88.71

ATE inhalation (dusts/mists mg/l) 9.01

Inhalation Smoke may cause upper airway irritation.

Ingestion Burning in mouth, vomiting, nausea, tremors and convulsions may occur.

Skin contact May cause sensitisation by skin contact.

Eye contact Should not cause eye irritation.

Route of entry Inhalation Skin and/or eye contact Ingestion.

SECTION 12: Ecological Information

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

12.1. Toxicity

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Toxicity	Very toxic to aquatic organisms.
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.0076 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.00017 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 0.497 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability	The product is not readily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
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12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects	Not known.
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SECTION 13: Disposal considerations

Waste treatment

13.1. methods

General information	Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
Disposal methods	Dispose of waste and residues in accordance with local authority requirements. Incinerate in suitable combustion chamber.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (ADN) 3077

UN proper shipping

14.2. name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains PERMETHRIN and POTASSIUM CHLORATE)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains PERMETHRIN and POTASSIUM CHLORATE)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains PERMETHRIN and POTASSIUM CHLORATE)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains PERMETHRIN and POTASSIUM CHLORATE)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M7

ADR/RID label 9

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IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code 2Z

Hazard Identification

Number 90
(ADR/RID)

Tunnel restriction code (E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations This product is approved under the Control of Pesticides Regulations 1986.

Chemical safety

15.2. assessment

No chemical safety assessment has been carried out.

SECTION 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.

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Revision comments	Section 14 updated.
Issued by	Group Technical Director
Revision date	24/08/2016
Revision	32
Supersedes date	18/07/2016
SDS number	20586
Hazard statements in full	H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. 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.

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.