



PES TR Professional Fogger (Total Release Aerosol)

Version: 1.0

Version date: 07/11/2024

Language: EN

According to the Globally Harmonised System of Classification and Labelling of Chemicals, version 10

Safety Data Sheet

section

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

1.1 Product identifier

Trade name/designation : PES TR Professional Fogger (Total Release Aerosol)

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

Relevant identified uses : Insecticide.
Uses advised against : No data available.

1.3 Details of the supplier of the safety data sheet

Supplier : **Name:** Pathogen and Environmental Solutions (Pty) Ltd
Street: Unit 37, Silver Park, Silver Street, Brackenfell
Postal code/City: Industria, Cape town, 7560
Country: South Africa
Telephone: +27 (0)21 982 8689 or +27 (0) 83 295 1313
E-mail: info@pesafrica.net

1.4 Emergency Telephone Number

ZA: **NATIONAL POISON CENTER:** 0861 555 777
EMERGENCY NUMBER: +27 (0) 83 295 1313

Hazards identification

2.1 Classification of the substance or mixture

Hazards identification:

Flam. Aerosol 2.	H223+H229	Flammable Aerosol. Pressurized container: may burst if heated.
Flammable Liquids 2.	H225	Highly flammable liquid and vapour.
Asp. Tox 2.	H305	May be harmful if swallowed and enters airways.
Eye Irrit. 2	H319	Causes serious eye irritation.
Acute Tox 4. Inhalation	H332	Harmful if inhaled.
STOT SE 3.	H335	May cause respiratory irritation.
Aquatic Chronic 1.	H410	Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling

Hazard pictograms



Signal word

DANGER

Hazard Statements

H223+H229	Flammable Aerosol. Pressurized container: may burst if heated.
H225	Highly flammable liquid and vapour.
H305	May be harmful if swallowed and enters airways.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements – Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn even after use.

Precautionary Statements – Response

P391	Collect spillage.
P312	Call a POISON CENTER/doctor if you feel unwell.

Precautionary Statements – Disposal

P501	Dispose of contents/container to local and national regulations.
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2.3 Other hazards

None.

section 3 Composition/information on ingredients

3.1 Mixtures

Substance		Concentration (%)	Specific concentration limits	Classification
d-phenothrin				
CAS N°	26046-85-5	C≤ 0.10 %		H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
EC N°	245-387-9			
IDX N°				
Piperonyl Butoxide (PBO)				
CAS N°	51-03-6	C≤ 0.8 %		H335 May cause respiratory irritation. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
EC N°	200-076-7			
IDX N°				
Kerosene (Odourless)				
CAS N°	64742-47-8	C≤ 5-10 %		H305 May be harmful if swallowed and enters airways.
EC N°	265-149-8			
IDX N°				
Pyriproxyfen				
CAS N°	95737-68-1	C≤ 0.005 %		H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
EC N°	429-800-1			
IDX N°	613-303-00-3			
Imiprothrin				
CAS N°	72963-72-5	C≤ 0.05 %		H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects. H302 Harmful if swallowed.
EC N°	615-873-9			
IDX N°				
Acetone				
CAS N°	67-64-1	C≤ 15-25 %		H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation H336 May cause drowsiness or dizziness.
EC N°	200-662-2			
IDX N°				
Butane				
CAS N°	106-97-8	C≤ 54-64 %		H223 Flammable aerosol. H229 Pressurized container: may burst if heated.
EC N°				
IDX N°				

3.2 Remark

Full text of H- phrases: see section 16.

First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

Keep affected person warm, still and covered.

Remove the affected person from the danger zone and lay down.

Following inhalation:

Remove person to fresh air and keep comfortable for breathing.

No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator.

If breathing is irregular or stopped, administer artificial respiration.

Following skin contact:

Remove contaminated, saturated clothing immediately.

After contact with skin, wash immediately with plenty of water and soap.

Take off immediately all contaminated clothing.

In case of skin irritation, consult a physician.

Following eye contact:

In case of eye irritation consult an ophthalmologist.

Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect unharmed eye.

Following ingestion:

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Self-protection of the first aider:

First aider: Pay attention to self-protection!.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Treat symptomatically.

Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam.

Extinguishing powder.

Carbon dioxide (CO₂).

Sand.

Unsuitable extinguishing media: Strong water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

section 6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment.

Remove persons to safety.

Provide adequate ventilation.

Use appropriate respiratory protection.

6.2 Environmental precautions

Ensure that waste is collected and contained.

Avoid release to the environment.

Cover drains.

Ensure all waste water is collected and treated via a waste water treatment plant.

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Contain leaks or spills within cabinets with removable trays.

6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Ventilate affected area.

Collect spillage.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Wipe up with absorbent material (eg. cloth, fleece).

6.4 Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

6.5 Additional information

Not available.

section 7 Handling and Storage

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use.

Use only outdoors or in a well-ventilated area.

PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.

Remove fume condensates periodically from extraction hoods, leads and other surfaces (wear personal protective clothing!) as there is a risk of catching fire.

Use only in well-ventilated areas.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Take precautionary measures against static discharges.

Provide adequate ventilation as well as local exhaustion at critical locations.

Sewers and ducts must be protected against the entry of the product.

Wear personal protective clothing (see section 8).

Provide for retaining containers, eg. floor pan without outflow.

Vapours/aerosols should be exhausted directly at the point of origin.

Avoid breathing gas/fumes/vapour/spray.

Advice on general occupational hygiene:

Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately.

Work in well-ventilated zones or use proper respiratory protection.

Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.

Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area.

Ground/bond container and receiving equipment.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Store locked up.

Use isolated drainage to prevent discharge to soil.

Advice on joint storage:

Keep away from food, drink and animal feedingstuffs.

Keep away from clothing and other combustible materials.

Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

Further information on storage conditions:

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

section 8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits: Not available

Biological limit values:

Not available

Exposure limits at intended use:

Not available.

8.2 Exposure controls

Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

Personal protection equipment:



Eye/face protection

: **Suitable eye protection:**

Wear safety glasses.

Skin protection

: **Hand protection:**

Suitable gloves type:

Wear protective gloves.

Suitable material:

Butyl caoutchouc (butyl rubber).

NBR (nitrile rubber).

Additional hand protection measures:

Do not wear gloves near machines and rotating tools.

Use gloves only once.

Remark:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection:

Suitable protective clothing:

Lab coat.

Respiratory protection

: **Respiratory protection necessary at:**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus:

Wear respiratory protection.

Remark:

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits as specified by the manufacturer.

Environmental exposure controls:

Not available.

section 9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Odour	: Not available
Odour threshold	: Not available
pH	: Not available
Melting/Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Evaporation rate	: Not available
Flammability	: Flammable
Lower limit of flammability or explosive	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: Not available
Water solubility	: Not soluble
Partition coefficient, n-octanol/water (log Pow)	: Not available
Auto-inflammability temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive properties	: Risk of ignition when exposed to a heat source.
Oxidising properties	: Not available
Solubility in other Solvents	: Not available
Log Kow	: Not available

section 10 Stability and Reactivity

10.1 Reactivity

Do not expose to temperatures above 50 Degrees Celsius.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures. Do not expose to temperatures above 50 Degrees Celsius.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Heat, ignition sources, mechanical shock, incompatible materials.

10.4 Conditions to avoid

Heat, ignition sources, mechanical shock, incompatible materials.

10.5 Incompatible materials

Reactive with oxidising agents.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

10.7 Additional information

Not available.

section 11 Toxicological information

11.1 Acute oral toxicity

The product is not classified.

11.2 Acute dermal toxicity

The product is not classified.

11.3 Acute inhalation toxicity

The product is classified Acute Tox. 4_INHALATION according to the referenced regulation. Harmful if inhaled.
ATE "PES TR Professional Fogger" (Total Release Aerosol)" = 14.42 mg/l. (Vapours)

11.4 Skin corrosion/irritation

The product is not classified.

11.5 Serious eye damage/irritation

The product is classified as Eye Irrit. 2 - H319 Causes serious eye irritation.

11.6 Skin sensitisation

The product is not classified.

11.7 Specific target organ toxicity (repeated exposure)

The product is not classified.

11.8 Specific target organ toxicity (single exposure)

The product is classified STOT SE 3 - H335 May cause respiratory irritation.

11.9 Carcinogenicity

The product is not classified.

11.10 Reproductive toxicity

The product is not classified.

11.11 Germ cell mutagenicity

The product is not classified.

11.12 Sensitisation to the respiratory tract

The product is not classified.

11.13 Additional information -Aspiration

The product is classified as Asp.Tox 2 – H305 – May be harmful if swallowed and enters airways.

section 12 Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

The product has not been tested.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Additional ecotoxicological information

Not available.

section 13 Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal:

Waste treatment options:

Appropriate disposal/Product:

Waste requiring special supervision.

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Handle contaminated packages in the same way as the substance itself.

Dispose of waste according to applicable legislation.

Remark:

For recycling, contact manufacturer.

Collect the waste separately.

Consult the appropriate authorities about waste disposal.

Do not mix with other wastes.

The waste is to be kept separate from other types of waste until its disposal.

Concerning the waste, it has to be checked, whether a transport authorisation is required

section 14 Transport information

		Land transport (ADR/RID):	Inland waterway transport (ADN):	Sea transport (IMDG):	Air transport (ICAO-TI/IATA- DGR):
14.1	UN number:	1950	1950	1950	1950
14.2	UN proper shipping name:	Aerosols, flammable, (each not exceeding 1 L capacity)	Aerosols, flammable, (each not exceeding 1 L capacity)	Aerosols, flammable, (each not exceeding 1 L capacity)	Aerosols, flammable, (each not exceeding 1 L capacity)
14.3	Transport hazard class(es):				
	Class or Division:	2.1 Flammable gases	2.1 Flammable gases	2.1 Flammable gases	2.1 Flammable gases
	Hazard label(s):	 	 	 	 
14.4	Packing group:	III	III	III	III

14.5 Environmental hazards

“Fish and Tree” Symbol



14.6 Special precautions for user

Not available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

section 15 Regulatory information

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

This SDS has been established in accordance with GHS regulation.

15.2 Chemical Safety Assessment

Not available.

section 16 Other information

16.1 Indication of changes

Not applicable (first edition of the MSDS).

16.2 Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

GHS: Globally Harmonised System of Classification and Labeling of Chemicals.

16.3 Key literature references and sources for data

ECHA and UN Purple Book Rev 10.

16.4 The classification of the mixture is in accordance with the evaluation method described in HazCom 2012

The classification of the mixture is in accordance with the evaluation method described in the GHS.

16.5 The classification of the mixture is in accordance with the evaluation method described in the GHS

Flam. Aerosol 2.	H223+H229	Flammable Aerosol. Pressurized container: may burst if heated.
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Acute Tox 4. Inhalation	H332	Harmful if inhaled.
STOT SE 3.	H335	May cause respiratory irritation.
Aquatic Chronic 1.	H410	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.



PES TR Professional Fogger (Total Release Aerosol)

16.7 Additional information

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The information given in this Safety Data Sheet is based on our present knowledge and on GHS Guidelines Rev 10. and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non-identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects. If you have questions, contact the supplier of the product.