

ANTI PARASITES 250 ML KING DERM ALPES - A15501



SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

1.1. Product identifier

Product name : ANTI PARASITES 250 ML KING DERM ALPES
Product code : A15501.

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

Biocide PT18

1.3. Details of the supplier of the safety data sheet

Registered company name : SICO.
Address : 577 RUE DU POMMARIN - BP 16 - .38 341.VOREPPE.France.
Telephone : 04 76 50 85 50. Fax : 04 76 50 85 67.
sico.fds@sico.net
www.sico.net

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

>SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).

May produce an allergic reaction (EUH208).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).

2.2. Label elements

Biocidal mixture (see section 15).

Mixture for aerosol application.

> In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02



GHS09

Signal Word :

DANGER

Additional labeling :

EUH208

Contains PERMETHRIN (ISO). May produce an allergic reaction.

Hazard statements :

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements - General :

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P210

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

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P273

Avoid release to the environment.

Precautionary statements - Storage :

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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Precautionary statements - Disposal :

P501 Dispose of contents/container to ...

Other information :

Do not use for a usage other one than the one for wich the product is intended.

Do not spray for a long time.

> 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

This mixture does not contain substances meeting the PBT or vPvB criteria as defined in Annex XIII of Regulation (EC) 1907/2006.

REACH SVHC $< 0.1\%$

Considering the information communicated by our suppliers, according to the article 33 of the REACH, the mixture contains, in the date of revision of the FDS, less than 0.1 % m/m of ' Substances extrêmement worrisome ' (SVHC) published by the European Agency of Chemicals (ECHA) according to the article 57 of the REACH: <http://echa.europa.eu/fr/candidate-list-table>

>SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

> Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 BUTANE	GHS02, GHS04 Dgr Flam. Gas 1, H220	C [1] [7]	25 \leq x % $<$ 50
EC: 920-901-0 REACH: 01-2119456810-40 HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS	GHS08 Dgr Asp. Tox. 1, H304 EUH:066		10 \leq x % $<$ 25
INDEX: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 AND ISOBUTANE	GHS02, GHS04 Dgr Flam. Gas 1, H220	C [1] [7]	10 \leq x % $<$ 25
INDEX: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 PROPANE	GHS02, GHS04 Dgr Flam. Gas 1, H220	[1] [7]	2.5 \leq x % $<$ 10
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43 ETHANOL	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1]	2.5 \leq x % $<$ 10
CAS: 52645-53-1 EC: 258-067-9 PERMETHRIN (ISO)	GHS07, GHS09 Wng Acute Tox. 4, H302 Skin Sens. 1B, H317 Acute Tox. 4, H332 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 10000		0 \leq x % $<$ 2.5
CAS: 51-03-6 EC: 200-076-7 REACH: 01-2119537431-46 PIPÉRONYL BUTOXIDE	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 \leq x % $<$ 2.5

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CAS: 89997-63-7 EC: 289-699-3 CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CO2	GHS07, GHS09 Wng Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 100		0 <= x % < 2.5
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(Full text of H-phrases: see section 16)

> Information on ingredients :

Substances may not have a REACH Registration No.. because they are manufactured / imported in quantities less than 1 ton / year, or they are complex substances or they are exempted from registration under REACH.

[7] Propellant gas

[1] Substance for which maximum workplace exposure limits are available.

>SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

> In the event of exposure by inhalation :

In the event of an allergic reaction, seek medical attention.

> In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

> In the event of splashes or contact with skin :

In the event of an allergic reaction, seek medical attention.

Wash skin thoroughly with water.

Generally , the product does not irritate the skin.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

Specific and immediate treatment :

No data available.

Information for the doctor :

No data available.

>SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

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Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

> 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

>SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

> 6.4. Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

See Section 7 for information on safe handling.

>SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

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Recommended equipment and procedures :

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations.
- Do not breathe in aerosols.
- Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

- No smoking, eating or drinking in areas where the mixture is used.
- Never open the packages under pressure.

> 7.2. Conditions for safe storage, including any incompatibilities

- Store receptacle in a well ventilated area.
- Store in cool, dry conditions in well sealed receptacles.

Storage

- Keep out of reach of children.
- Keep the container tightly closed in a dry, well-ventilated place.
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight.
- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Packaging

- Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

- No data available.

>SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

> Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	1000 ppm				
75-28-5	1000 ppm				
74-98-6	1000 ppm				
64-17-5		1000 ppm		A3	

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

CAS	VME :	VME :	Excess	Notes
106-97-8		1000 ppm 2400 mg/m ³		4(II)
75-28-5		1000 ppm 2400 mg/m ³		4(II)
74-98-6		1000 ppm 1800 mg/m ³		4(II)
64-17-5		200 ppm 380 mg/m ³		4(II)

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
106-97-8	800	1900	-	-	-	-
64-17-5	1000	1900	5000	9500	-	84

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	600 ppm 1450 mg/m ³	750 ppm 1810 mg/m ³		Carc	
64-17-5	1000 ppm 1920 mg/m ³				

> Derived no effect level (DNEL) or derived minimum effect level (DMEL):

PIPÉRONYL BUTOXIDE (CAS: 51-03-6)

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>	Final use:	Workers.
	Exposure method:	Dermal contact.
	Potential health effects:	Long term systemic effects.
	DNEL :	22.778 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Short term systemic effects.
	DNEL :	55.556 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Long term local effects.
	DNEL :	0.444 mg of substance/cm2
Exposure method:	Dermal contact.	
Potential health effects:	Short term local effects.	
DNEL :	0.444 mg of substance/cm2	
Exposure method:	Inhalation.	
Potential health effects:	Long term systemic effects.	
DNEL :	3.875 mg of substance/m3	
Exposure method:	Inhalation.	
Potential health effects:	Short term systemic effects.	
DNEL :	7.75 mg of substance/m3	
Exposure method:	Inhalation.	
Potential health effects:	Long term local effects.	
DNEL :	0.222 mg of substance/m3	
Exposure method:	Inhalation.	
Potential health effects:	Short term local effects.	
DNEL :	3.875 mg of substance/m3	
>	Final use:	Consumers.
	Exposure method:	Ingestion.
	Potential health effects:	Long term systemic effects.
	DNEL :	1.143 mg/kg body weight/day
	Exposure method:	Ingestion.
	Potential health effects:	Short term systemic effects.
	DNEL :	2.286 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Long term systemic effects.
	DNEL :	13.888 mg/kg body weight/day
Exposure method:	Dermal contact.	
Potential health effects:	Short term systemic effects.	
DNEL :	27.776 mg/kg body weight/day	
Exposure method:	Dermal contact.	
Potential health effects:	Long term local effects.	
DNEL :	0.222 mg of substance/cm2	
Exposure method:	Dermal contact.	
Potential health effects:	Short term local effects.	
DNEL :	0.222 mg of substance/cm2	
Exposure method:	Inhalation.	

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Potential health effects: Long term systemic effects.
DNEL : 1.937 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 3.874 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 1.937 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 1.937 mg of substance/m3

ETHANOL (CAS: 64-17-5)

Final use:

Exposure method: **Workers.**
Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 343 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 950 mg of substance/m3

Final use:

Exposure method: **Consumers.**
Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 87 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 206 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 114 mg of substance/m3

> Predicted no effect concentration (PNEC):

PIPÉRONYL BUTOXIDE (CAS: 51-03-6)

Environmental compartment: Soil.
PNEC : 0.136 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.003 mg/l

Environmental compartment: Sea water.
PNEC : 0.0003 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.0194 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.00194 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 10 mg/l

Environmental compartment: Vermivore predators (oral).

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PNEC : 12.53 mg/kg

ETHANOL (CAS: 64-17-5)

Environmental compartment:
PNEC : Soil.
0.63 mg/kg

Environmental compartment:
PNEC : Fresh water.
0.96 mg/l

Environmental compartment:
PNEC : Sea water.
0.79 mg/l

Environmental compartment:
PNEC : Intermittent waste water.
2.75 mg/l

Environmental compartment:
PNEC : Fresh water sediment.
3.6 mg/kg

Environmental compartment:
PNEC : Marine sediment.
2.9 mg/kg

Environmental compartment:
PNEC : Waste water treatment plant.
580 mg/l

Environmental compartment:
PNEC : Vermivore predators (oral).
0.38 mg/kg

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

> - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

> - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- PVA (Polyvinyl alcohol)

Let the glove manufacturer advise you on the choice of gloves and their duration of use for your operating conditions

Recommended properties :

- Impervious gloves in accordance with standard EN ISO 374-2

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

> - Respiratory protection

Category :

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- AX (Brown)

Particle filter according to standard EN143 :

- P1 (White)

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Types, classes and filters for respiratory protection above are recommended in case of confrontation at concentrations higher than the exposure limits specified under 8.1. (Control parameters) .They should be adjusted according to actual conditions. they may not be necessary if the product is used outdoors or in a well ventilated area.

|>SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Fluid liquid.
Spray.

|> Important health, safety and environmental information

pH : Not relevant.
Boiling point/boiling range : Not specified.
Flash point interval : Not relevant.
Vapour pressure (50°C) : Not relevant.
Density : < 1
Water solubility : Insoluble.
Viscosity: $v < 7 \text{ mm}^2/\text{s}$ (40°C)
Melting point/melting range : Not specified.
Self-ignition temperature : Not specified.
Decomposition point/decomposition range : Not specified.
Chemical combustion heat : Not specified.
Inflammation time : Not specified.
Deflagration density : Not specified.
Inflammation distance : Not specified.
Flame height : Not specified.
Flame duration : Not specified.

9.2. Other information

No data available.

|>SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating
- heat

|> 10.5. Incompatible materials

No incompatible materials known.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

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>SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

> Acute toxicity :

PIPÉRONYL BUTOXIDE (CAS: 51-03-6)

Oral route : LD50 = 4750 mg/kg
Species : Rat

Dermal route : LD50 > 2000 mg/kg
Species : Rabbit

Inhalation route (n/a) : LC50 > 5.9 mg/l
Species : Rat

PERMETHRIN (ISO) (CAS: 52645-53-1)

Oral route : LD50 = 554 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 <= 2000 mg/kg
Species : Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) : LC50 = 4.638 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS

Oral route : LD50 > 5000 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 5000 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

> Skin corrosion/skin irritation :

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

> Serious damage to eyes/eye irritation :

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS

Corneal haze : Average score < 1
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

No observed effect.
Iritis : Average score < 1

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OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival redness : Average score < 2
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival oedema : Average score < 2
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

> Respiratory or skin sensitisation :

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS
Local lymph node stimulation test : Non-Sensitiser.
OECD Guideline 406 (Skin Sensitisation)

> Germ cell mutagenicity :

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS
No mutagenic effect.

> Carcinogenicity :

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS
Carcinogenicity Test : Negative.
No carcinogenic effect.

11.1.2. Mixture

> Skin corrosion/skin irritation :

Based on available data; the classification criteria are not met.

> Serious damage to eyes/eye irritation :

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

> Germ cell mutagenicity :

Based on available data; the classification criteria are not met.

> Carcinogenicity :

Based on available data; the classification criteria are not met.

> Reproductive toxicant :

Based on available data; the classification criteria are not met.

> Specific target organ systemic toxicity - single exposure :

Based on available data; the classification criteria are not met.

> Specific target organ systemic toxicity - repeated exposure :

Based on available data; the classification criteria are not met.

> Aspiration hazard :

Based on available data; the classification criteria are not met.

> Delayed and immediate effects as well as chronic effects from short and long-term exposure

No further relevant information available.

> Other information

No further relevant information available.

> Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 128-37-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 67-63-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 51-03-6 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 52645-53-1 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 64-17-5 : IARC Group 1 : The agent is carcinogenic to humans.

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>SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

> 12.1.1. Substances

PERMETHRIN (ISO) (CAS: 52645-53-1)

Crustacean toxicity :

EC50 < 0.001 mg/l
Factor M = 100
Duration of exposure : 48 h

EC50 mg/l
Factor M = 100

NOEC < 0.000001 mg/l
Factor M = 10000

PIPÉRONYL BUTOXIDE (CAS: 51-03-6)

Fish toxicity :

LC50 = 3.94 mg/l
Species : *Cyprinodon variegatus*
Duration of exposure : 96 h

EC50 mg/l
Species : *Cyprinodon variegatus*
Duration of exposure : 96 h

NOEC = 0.053 mg/l
Species : *Cyprinodon variegatus*

Crustacean toxicity :

EC50 = 0.51 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h

EC50 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h

NOEC = 0.03 mg/l
Species : *Daphnia magna*

Algae toxicity :

EC50 mg/l
Species : *Selenastrum capricornutum*
Duration of exposure : 72 h

NOEC = 0.824 mg/l
Species : *Scenedesmus capricornutum*

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

> 12.2.1. Substances

PIPÉRONYL BUTOXIDE (CAS: 51-03-6)

Biodegradability :

Non-rapidly degradable.

PERMETHRIN (ISO) (CAS: 52645-53-1)

Biodegradability :

Non-rapidly degradable.

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS

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Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2019 - IMDG 2018 - ICAO/IATA 2020).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :



2.1

14.4. Packing group

-

14.5. Environmental hazards

- Environmentally hazardous material :



14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	

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	2	See SP63	-	See SP277	F-D, S-U	63 190 277 327 344 381 959	E0	- SW1 SW22	SG69
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IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.1	-	-	Forbidden	Forbidden	203	150 kg	A1 A145 A167 A802	E0
	2.1	-	-	Forbidden	Forbidden	-	-	A1 A145 A167 A802	E0

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

>SECTION 15 : REGULATORY INFORMATION

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

> - Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 75/324/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2017/776 (ATP 10)

- Container information:

No data available.

- Particular provisions :

No data available.

> - Labelling for biocidal products (Regulation (UE) n° 528/2012) :

Name	CAS	%	Product-type
PERMETHRIN (ISO)	52645-53-1	1.99 g/l	18
CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CO2	89997-63-7	0.3 g/l	18
S-METHOPRENE	65733-16-6	0.18 g/l	18
PIPERONYL BUTOXIDE	51-03-6	1.52 g/l	18

Product-type 18 : Insecticides, acaricides and products to control other arthropods.

> 15.2. Chemical safety assessment

The chemical safety assessment has not been carried out for this mixture.

>SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

> Wording of the phrases mentioned in section 3 :

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

|> Modification compared to the previous version