SAFETY DATA SHEET



Version #: 01

Issue date: 10-February-2025

Revision date: -Supersedes date: -

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

1.1. Product identifier

Trade name or designation

Thermacell Mosquito Protection II

of the mixture

Registration number **Unique Formula Identifier (UFI)**

H9M5-T092-M00C-EU80

Synonyms

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

Identified uses PT 18 Insecticide. Uses advised against For outdoor use only.

1.3. Details of the supplier of the safety data sheet

Company name Thermacell Europe AB

Address C/O R3 Revisionsbyrå Göteborg AB

412 63 Göteborg

Sweden

www.thermacell.com Website

1.4. Emergency telephone

number

CHEMTREC: +1-703-527-3887 (CCN 19760)

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product **National Poison**

information may not be available for the Emergency Service.) Information Centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

H332 - Harmful if inhaled. Acute toxicity, inhalation Category 4

Environmental hazards

Hazardous to the aquatic environment, acute Category 1 H400 - Very toxic to aquatic life.

aquatic hazard

Hazardous to the aquatic environment, Category 1 H410 - Very toxic to aquatic life

long-term aquatic hazard with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Prallethrin (ISO) Contains:

Hazard pictograms



Signal word Warning

Hazard statements

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

Prevention

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

Response

P312 Call a POISON CENTRE/doctor if you feel unwell.

P391 Collect spillage. **Storage** Not assigned.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information on

the label

None.

2.3. Other hazards This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or

greater than 0.1% by weight.

The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Cellulose	76,71	9004-34-6 232-674-9	-	-	
Classification:	-				
Prallethrin (ISO)	10,86	23031-36-9 245-387-9	-	607-431-00-9	
			ng/kg bw), Acute Tox. 3;H33 -100), Aquatic Chronic 1;H4		
Isopropyl myristate	6,86	110-27-0 203-751-4	-	-	
Classification:	-				
Hexanoic acid, 2-ethyl-, c16-18-alkyl esters	3,95	90411-68-0 291-445-1	-	-	
Classification:	-				
Methylenebis-[ethyl butylphenol]	1,36	88-24-4 201-814-0	-	-	
Classification:	Aquatic C	hronic 4;H413			
C.I. Solvent blue 35	0,26	17354-14-2 241-379-4	-	-	
Classification:	-				

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

Composition comments The full text for all H-statements is displayed in section 16.

All concentrations are in percent by weight unless otherwise indicated.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a poison centre or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

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Ingestion Rinse mouth. Get medical attention if symptoms occur.

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

Direct contact with eyes may cause temporary irritation.

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

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Will burn if involved in a fire.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Specific methods

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, hazardous combustion products are released that may include: Carbon oxides. Nitrogen Oxides

5.3. Advice for firefighters

Special protective equipment for firefighters

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

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do it without risk. Cool containers exposed to flames with water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. In case of inadequate ventilation, use respiratory protection. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Recover and recycle, if practical. Avoid the generation of dusts during clean-up. Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. Retain and dispose of contaminated wash water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide adequate ventilation. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Store away from incompatible materials (see section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E1 Hazardous to the Aquatic Environment Acute (Lower-tier requirements = 100 tonnes; Upper-tier requirements = 200 tonnes)
- E1 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 100 tonnes; Upper-tier requirements = 200 tonnes)
- 7.3. Specific end use(s)

PT 18 Insecticide. Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect

concentrations (PNECs)

Not available.

8.2. Exposure controls Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Personal protection equipment should be chosen according to the CEN standards and in **General information**

discussion with the supplier of the personal protective equipment.

If contact is likely, safety glasses with side shields are recommended. Eye protection should meet Eye/face protection

standard EN 166.

Skin protection

Wear suitable gloves tested to EN374. Nitrile gloves are recommended. Use gloves with - Hand protection

breakthrough time of 15 minutes. Minimum glove thickness 0.4 mm. Other suitable gloves can be

recommended by the glove supplier.

- Other Wear suitable protective clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Use filter type A1/P2 Respiratory protection

according to EN 143. Check with respiratory protective equipment suppliers.

Thermal hazards No protection is ordinarily required under normal conditions of use.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid **Form** Solid Colour Blue.

Characteristic. Odour

Odour threshold Property has not been measured. Property has not been measured. Melting point/freezing point Boiling point or initial boiling Property has not been measured.

point and boiling range

Will burn if involved in a fire. **Flammability**

Upper/lower flammability or explosive limits

Property has not been measured. Explosive limit - lower (%) Property has not been measured. Explosive limit - upper

(%)

Flash point Property has not been measured. **Auto-ignition temperature** Property has not been measured. **Decomposition temperature** Property has not been measured.

pН Not applicable (material is insoluble in water).

Not applicable, material is a solid. Kinematic viscosity

Solubility

Solubility (water) < 0,1 % Insoluble in water

Partition coefficient Not applicable, product is a mixture.

(n-octanol/water) (log value)

Vapour pressure Not applicable, material is a solid. Density and/or relative density

DensityProperty has not been measured.Relative densityProperty has not been measured.Vapour densityNot applicable, material is a solid.

Particle characteristics

Particle size Property has not been measured.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Evaporation rateNot applicable, material is a solid.Molecular weightNot applicable for mixtures.ViscosityNot applicable, material is a solid.

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoidContact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous Decomposition is not expected under normal conditions of use and storage. For hazardous

decomposition products combustion products, see section 5.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Prolonged skin contact may cause temporary irritation. **Eye contact** Direct contact with eyes may cause temporary irritation.

Ingestion May be harmful if swallowed.

Symptoms Direct contact with eyes may cause temporary irritation.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if inhaled. May be harmful if swallowed.

Components Species Test Results

Prallethrin (ISO) (CAS 23031-36-9)

Acute Inhalation

Mist

LC50 Rat

0,658 mg/l, 4 hours

417 mg/kg

Oral

LD50 Rat

Skin corrosion/irritationBased on available data, the classification criteria are not met.

Serious eye damage/eye irritation

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

Respiratory sensitisationBased on available data, the classification criteria are not met. **Skin sensitisation**Based on available data, the classification criteria are not met.

Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

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

Specific target organ 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.

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Mixture versus substance information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Other information No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

Very toxic to aquatic life with long lasting effects. 12.1. Toxicity

12.2. Persistence and

No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient

Not applicable, product is a mixture.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available

12.4. Mobility in soil

The product is insoluble in water. Expected to have low mobility in soil.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6. Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

12.7. Other adverse effects No data available for this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner.

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Disposal methods/information

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Special precautions

SECTION 14: Transport information

ADR

14.1. UN number

14.2. UN proper shipping

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Prallethrin (ISO))

name

14.3. Transport hazard class(es)

9 Class Subsidiary hazard Label(s) 9 Hazard No. (ADR) 90 **Tunnel restriction code** Ε 14.4. Packing group Ш 14.5. Environmental hazards Yes

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

Class

Exempt from classification under Special Provision 335.

RID

UN3077 14.1. UN number

14.2. UN proper shipping

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Prallethrin (ISO))

14.3. Transport hazard class(es)

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Subsidiary hazard Label(s) 9 14.4. Packing group Ш 14.5. Environmental hazards Yes

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Exempt from classification under Special Provision 335.

ADN

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Prallethrin (ISO))

name

14.3. Transport hazard class(es)

9 Class Subsidiary hazard 9 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards Yes

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

Exempt from classification under Special Provision 335.

ΙΔΤΔ

14.1. UN number

Environmentally hazardous substance, solid, n.o.s. (Prallethrin (ISO)) 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

9 Subsidiary hazard 9 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards Yes **ERG Code**

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Exempt from classification under Special Provision A158.

IMDG

14.1. UN number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Prallethrin (ISO)) 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class 9 **Subsidiary hazard** 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant Yes F-A, S-F **EmS**

Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions

for user

Exempt from classification under Special Provision 335.

14.7. Maritime transport in bulk Not applicable.

according to IMO instruments

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Thermacell Mosquito Protection II SDS Sweden Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Prallethrin (ISO) (CAS 23031-36-9)

3

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed

Other EU regulations Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

E1 Hazardous to the Aquatic Environment AcuteE1 Hazardous to the Aquatic Environment Chronic

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. IMO: International Maritime Organization.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

vPvB: Very persistent and very bioaccumulative.

References ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

ECHA: European Chemicals Agency

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

NLM: Hazardous Substances Data Base

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

Training information Disclaimer

Follow training instructions when handling this material.

Thermacell Repellents, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.