

## 1. Identification

|                                                               |                                                       |
|---------------------------------------------------------------|-------------------------------------------------------|
| <b>Product identifier</b>                                     | <b>Thermacell Mosquito Mat</b>                        |
| <b>Other means of identification</b>                          | None.                                                 |
| <b>Recommended use</b>                                        | Mosquito repellent.                                   |
| <b>Recommended restrictions</b>                               | For outdoor use only.                                 |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |                                                       |
| <b>Company name</b>                                           | Thermacell Repellents, Inc.                           |
| <b>Address</b>                                                | 26 Crosby Drive<br>Bedford, MA 01730<br>United States |
| <b>Website</b>                                                | www.thermacell.com                                    |
| <b>Telephone</b>                                              | (781) 430-5277                                        |
| <b>Emergency telephone</b>                                    | CHEMTREC: +1-703-527-3887<br>CCN 19760                |

## 2. Hazard identification

|                              |                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical hazards</b>      | Not classified.                                                                                                                    |
| <b>Health hazards</b>        | Not classified.                                                                                                                    |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard Category 1<br>Hazardous to the aquatic environment, long-term hazard Category 1 |

### Label elements



|                                 |                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Signal word</b>              | Warning                                                                                             |
| <b>Hazard statement</b>         | Very toxic to aquatic life with long lasting effects.                                               |
| <b>Precautionary statement</b>  |                                                                                                     |
| <b>Prevention</b>               | Observe good industrial hygiene practices.                                                          |
| <b>Response</b>                 | Collect spillage.                                                                                   |
| <b>Storage</b>                  | Store away from incompatible materials.                                                             |
| <b>Disposal</b>                 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Supplemental information</b> | None.                                                                                               |
| <b>Other hazards</b>            | None known.                                                                                         |

## 3. Composition/information on ingredients

### Mixtures

| Chemical name                                                               | Common name and synonyms | CAS number  | %       |
|-----------------------------------------------------------------------------|--------------------------|-------------|---------|
| DL-3-allyl-2-methylcyclopent-2-en-4-one-1-yl<br>DL-cis,trans-chrysanthemate |                          | 231937-89-6 | 10 - 30 |
| Distillates (petroleum), hydrotreated light                                 |                          | 64742-47-8  | 7 - 13  |
| 6,6'-di-tert-Butyl-4,4'-diethyl-2,2'-methylenediphenol                      |                          | 88-24-4     | 1 - 5   |

## Composition comments

The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.

## 4. First-aid measures

### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

### Skin contact

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

### Eye contact

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

### Ingestion

Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

### Indication of immediate medical attention and special treatment needed

Treat symptomatically.

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media

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

### Specific hazards arising from the chemical

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

### Special protective equipment and precautions for firefighters

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

### Fire fighting equipment/instructions

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.

### Specific methods

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

### General fire hazards

Will burn if involved in a fire.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials 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. For waste disposal, see section 13 of the SDS.

### 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.

## 7. Handling and storage

### Precautions for safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothing. 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.

### Conditions for safe storage, including any incompatibilities

Keep only in original packaging. 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).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                | Type | Value    |
|---------------------------|------|----------|
| Cellulose (CAS 9004-34-6) | TWA  | 10 mg/m3 |

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                                                   | Type | Value     | Form    |
|--------------------------------------------------------------|------|-----------|---------|
| Cellulose (CAS 9004-34-6)                                    | TWA  | 10 mg/m3  |         |
| Distillates (petroleum), hydrotreated light (CAS 64742-47-8) | TWA  | 200 mg/m3 | Vapour. |

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                                                   | Type | Value     | Form                 |
|--------------------------------------------------------------|------|-----------|----------------------|
| Cellulose (CAS 9004-34-6)                                    | TWA  | 3 mg/m3   | Respirable fraction. |
|                                                              |      | 10 mg/m3  | Total dust.          |
| Distillates (petroleum), hydrotreated light (CAS 64742-47-8) | TWA  | 200 mg/m3 | Non-aerosol.         |

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components                | Type | Value    |
|---------------------------|------|----------|
| Cellulose (CAS 9004-34-6) | TWA  | 10 mg/m3 |

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                | Type | Value    |
|---------------------------|------|----------|
| Cellulose (CAS 9004-34-6) | TWA  | 10 mg/m3 |

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components                | Type | Value    | Form        |
|---------------------------|------|----------|-------------|
| Cellulose (CAS 9004-34-6) | TWA  | 10 mg/m3 | Total dust. |

#### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

| Components                                                   | Type      | Value     | Form    |
|--------------------------------------------------------------|-----------|-----------|---------|
| Cellulose (CAS 9004-34-6)                                    | 15 minute | 20 mg/m3  | Fiber.  |
|                                                              | 8 hour    | 10 mg/m3  | Fiber.  |
| Distillates (petroleum), hydrotreated light (CAS 64742-47-8) | 15 minute | 250 mg/m3 | Vapour. |
|                                                              | 8 hour    | 200 mg/m3 | Vapour. |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

#### Canada - Alberta OELs: Skin designation

Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

#### Canada - British Columbia OELs: Skin designation

Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

#### Canada - Saskatchewan OELs: Skin designation

Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

### 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**

|                                       |                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>            | Not normally needed. If contact is likely, safety glasses with side shields are recommended.                                                                                                                                            |
| <b>Skin protection</b>                |                                                                                                                                                                                                                                         |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves. Rubber, neoprene or PVC. Other suitable gloves can be recommended by the glove supplier.                                                                                                    |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing.                                                                                                                                                                                           |
| <b>Respiratory protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment. Selection and use of respiratory protective equipment should be in accordance with CSA Standard Z94.4. Check with respiratory protective equipment suppliers. |
| <b>Thermal hazards</b>                | No protection is ordinarily required under normal conditions of use.                                                                                                                                                                    |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.                   |

**9. Physical and chemical properties****Appearance**

|                                                |                                                   |
|------------------------------------------------|---------------------------------------------------|
| <b>Physical state</b>                          | Solid.                                            |
| <b>Form</b>                                    | Solid.                                            |
| <b>Colour</b>                                  | Blue.                                             |
| <b>Odour</b>                                   | Characteristic.                                   |
| <b>Odour threshold</b>                         | No data available.                                |
| <b>pH</b>                                      | Not applicable. Material is non soluble in water. |
| <b>Melting point/freezing point</b>            | Property has not been measured.                   |
| <b>Initial boiling point and boiling range</b> | Property has not been measured.                   |
| <b>Flash point</b>                             | Property has not been measured.                   |
| <b>Evaporation rate</b>                        | Not applicable, material is a solid.              |
| <b>Flammability (solid, gas)</b>               | Will burn if involved in a fire.                  |

**Upper/lower flammability or explosive limits**

|                                                |                                       |
|------------------------------------------------|---------------------------------------|
| <b>Explosive limit - lower (%)</b>             | Property has not been measured.       |
| <b>Explosive limit – upper (%)</b>             | Property has not been measured.       |
| <b>Vapour pressure</b>                         | Not applicable, material is a solid.  |
| <b>Vapour density</b>                          | Not applicable, material is a solid.  |
| <b>Relative density</b>                        | Property has not been measured.       |
| <b>Solubility(ies)</b>                         |                                       |
| <b>Solubility (water)</b>                      | < 0.1 % Insoluble in water            |
| <b>Partition coefficient (n-octanol/water)</b> | Not applicable, product is a mixture. |
| <b>Auto-ignition temperature</b>               | Property has not been measured.       |
| <b>Decomposition temperature</b>               | Property has not been measured.       |
| <b>Viscosity</b>                               | Not applicable, material is a solid.  |
| <b>Other information</b>                       |                                       |
| <b>Density</b>                                 | 4 lb/ft <sup>3</sup>                  |
| <b>Explosive properties</b>                    | Not explosive.                        |
| <b>Kinematic viscosity</b>                     | Not applicable, material is a solid.  |
| <b>Oxidising properties</b>                    | Not oxidising.                        |
| <b>Particle size</b>                           | Property has not been measured.       |

**10. Stability and reactivity**

|                           |                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b> | Material is stable under normal conditions.                                                   |

|                                           |                                                                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                                                 |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.                                                                                        |
| <b>Incompatible materials</b>             | Strong oxidising agents.                                                                                                    |
| <b>Hazardous decomposition products</b>   | Decomposition is not expected under normal conditions of use and storage. For hazardous combustion products, see section 5. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| <b>Inhalation</b>   | May be harmful if inhaled.                               |
| <b>Skin contact</b> | Prolonged skin contact may cause temporary irritation.   |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |
| <b>Ingestion</b>    | May cause discomfort if swallowed.                       |

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** May be harmful if inhaled.

| Product | Species | Test Results |
|---------|---------|--------------|
|---------|---------|--------------|

Thermacell Mosquito Mat (CAS Mixture)

#### Acute

##### **Dermal**

|      |     |                       |
|------|-----|-----------------------|
| LD50 | Rat | > 2000 mg/kg, 14 days |
|------|-----|-----------------------|

##### **Inhalation**

|      |     |             |
|------|-----|-------------|
| LC50 | Rat | > 8.48 mg/l |
|------|-----|-------------|

##### **Oral**

|      |     |                       |
|------|-----|-----------------------|
| LD50 | Rat | > 2000 mg/kg, 14 days |
|------|-----|-----------------------|

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

#### **Corrosivity**

|                         |                                                                       |
|-------------------------|-----------------------------------------------------------------------|
| Thermacell Mosquito Mat | Primary skin irritation<br>Result: Not irritating.<br>Species: Rabbit |
|-------------------------|-----------------------------------------------------------------------|

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

### Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available on bioaccumulation.

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

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

### 13. Disposal considerations

**Disposal instructions** Recover and recycle, if practical. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow 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.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** 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.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### TDG

**UN number** UN3077

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(DL-3-allyl-2-methylcyclopent-2-en-4-one-1-yl DL-cis,trans-chrysanthemate)

**Transport hazard class(es)**

**Class** 9

**Subsidiary risk** -

**Packing group** III

**Environmental hazards** E3

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IATA

**UN number** UN3077

**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (DL-3-allyl-2-methylcyclopent-2-en-4-one-1-yl DL-cis,trans-chrysanthemate)

**Transport hazard class(es)**

**Class** 9

**Subsidiary risk** -

**Label(s)** 9

**Packing group** III

**Environmental hazards** Yes

**ERG Code** 9L

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IMDG

**UN number** UN3077

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(DL-3-allyl-2-methylcyclopent-2-en-4-one-1-yl DL-cis,trans-chrysanthemate)

**Transport hazard class(es)**

**Class** 9

**Subsidiary risk** -

**Packing group** III

**Environmental hazards**

**Marine pollutant** Yes

**EmS** F-A, S-F

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### Controlled Drugs and Substances Act

Not regulated.

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**International regulations****Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto Protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories**

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                   | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                         | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)                                          | Yes                    |
| New Zealand                 | New Zealand Inventory                                                  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information**

**Issue date** 21-July-2021

**Revision date** -

**Version No.** 01

**Disclaimer** 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.