

1. Identification

Product identifier	Thermacell Mosquito Repellent Liquid Refill
Product No(s).	US EPA Reg. No(s). 71910-9 TRI-RAD, LD32C, LR112, LR140, LZ1, LZ1B, LZ1W, LR136, E55X, E55B, ER136, ER136W
Recommended use	Mosquito repellent
Recommended restrictions	Use with Thermacell Repellers. Keep out of reach of children. Use only per label directions.
Company name	Thermacell Repellents, Inc.
Address	26 Crosby Drive Bedford, MA 01730
Telephone	866.753.3837

2. Hazard(s) identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Physical hazards	Not classified.
Health hazards	Acute toxicity, inhalation - Category 4 Aspiration hazard - Category 1
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Hazard symbol	
Signal word	DANGER
Hazard statement	May be fatal if swallowed and enters airways. Harmful if inhaled.
Precautionary statement	
Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
Response	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local, state and federal regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Hazardous component(s):

<u>Chemical name</u>	<u>CAS Number</u>	<u>Weight %</u>
Metofluthrin	240494-70-6	4%
Hydro-treated middle-distillate (Petroleum)*	64742-46-7	5% - < 10%
Petroleum distillates, hydrotreated light*	64742-47-8	80% - < 90%

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis.
Indication of immediate medical attention and special treatment needed	Contains petroleum distillates – vomiting may cause aspiration pneumonia. For skin effects, a highly efficient therapeutic agent for Pyrethrin/Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).
General information	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Powder. Dry chemicals. Carbon dioxide (CO ₂).
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, gases hazardous to health may be formed.
Special protective equipment and precautions	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

for firefighters

Fire fighting equipment/ instructions

Use water spray to cool unopened containers.

Specific methods

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

General fire hazards

Will burn if involved in a fire. No unusual fire or explosion hazards noted.

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. 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

Use water spray to reduce vapors or divert vapor cloud drift. This material should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. For more information, see product label.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value

Value

Hydro-treated middle-distillate
(Petroleum) (CAS 64742-46-7)

PEL

400 mg/m³
100 ppm

Biological limit values
Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).
Good general ventilation (typically 10 air changes per hour) 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

Eye/face protection Wear safety glasses with side shields (or goggles).
Skin protection Wear appropriate chemical resistant gloves.
Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge.

General hygiene considerations

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

Physical state
Color

Liquid.
Clear, colorless

Odor

Slight - Solvent

Odor threshold

Not available.

pH

5.62 @ 24.0 °C

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

> 93.3 °C / > 200.0 °F Tag Closed Cup.

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Density

0.796 g/cm³ @ 22.4 °C

Solubility (water)

Not available.

Solubility (oil)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity 4.47 cPs @ 20.0 °C
VOC Content (%) 0
Other information
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Conditions to avoid Extreme temperatures and direct sunlight.
Incompatible materials Strong acids, bases and oxidizing agents.
Hazardous decomposition products Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.
Skin contact No adverse effects due to skin contact are expected.
Eye contact Direct contact with eyes may cause temporary irritation.
Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis.

Information on toxicological effects

Acute toxicity - Product

Species	Test Results
Rat	Acute Toxicity (Oral LD50): > 5000 mg/kg
Rabbit	Acute Toxicity (Dermal LD50): > 5000 mg/kg
Rat 4 hours	Acute Toxicity (Inhalation LC50): > 2.08 mg/l

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Not expected to cause skin sensitization.

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

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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	May be fatal if swallowed and enters airways.

12. Ecological information

Ecotoxicity	This product is toxic to fish and aquatic invertebrates. An environmental hazard cannot be excluded in the event of improper handling or disposal.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 (see: Disposal instructions).
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

DOT	Not regulated.
IATA	Not regulated.
IMDG	Not regulated. Single packaging < 5 L each not subject to the code for a marine pollutant.

15. Regulatory information

US federal regulations	This is a pesticide product registered by the Environmental Protection Agency (EPA Reg. No. 71910-9) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels
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according to the Hazard Communication Standard. Following is the hazard information as required on the pesticide label:

CAUTION: Harmful if swallowed.

29 CFR 1910.1200. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.
SARA 304 Emergency release notification	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated.
SARA 302 Extremely hazardous substance	Not listed.
SARA 311/312	Yes
Hazardous chemical	
Classified hazard	Acute toxicity, inhalation
Categories	Aspiration hazard
Hazardous chemical SARA 313 (TRI reporting)	Not regulated.
Other federal regulations	
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r)	Not regulated.
Accidental Release Prevention (40 CFR 68.130)	
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
International Inventories	
Country(s) or region	
United States	All ingredients are listed or are exempt from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canada	All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

16. Other information

Issue date	10-25-2017
Revision date	6-17-2020
Disclaimer	The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.