

Conforms to Hazard Communication Standard 29 CFR 1910.1200

Section 1 - IDENTIFICATION

Product Identifier: Repel® Realm Zone Mosquito Repellent

Other Means of Identification:

Product Code HG-94260
Formula Number 21-1734
EPA Reg. Number 9688-356

Recommended Use: Area Repellent

Recommended Restrictions: Use in accordance with label directions

Manufacturer/Importer/Supplier/Distributor Information:

Company Name Chemsico, Division of United Industries Corporation
Address PO Box 142642, St. Louis, MO 63114-0642
Telephone Number 1-800-645-5154

Emergency Telephone Number:

CHEMTREC (800)424-9300
Medical (800)633-2873

Section 2 - HAZARD(S) IDENTIFICATION

Classification of Substance or Mixture:

Physical Hazard(s) Not Classified as a Physical Hazard
Health Hazard(s) Category 4 - Acute Toxicity - Inhalation (Dust/Mists)
Category 1 - Aspiration Toxicity

Label Elements:

Hazard Pictogram(s)



Signal Word

Danger

Hazard Statements:

Harmful if inhaled
May be fatal if swallowed and enters airways

Precautionary Statements:

Avoid breathing dust, fume, gas, mist, vapors, or spray.
Use only outdoors or in a well-ventilated area.
If swallowed; immediately call a Poison Center or doctor/physician

Hazard(s) not Otherwise Classified (HNOC): No additional information available

Supplemental Information: None

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonyms	CAS Number	%
Metofluthrin		240494-70-6	4.0000
Hydro-treated middle-distillate (Petroleum)		64742-46-7	5.0000-10.0000
Petroleum distillates, hydrotreated light		64742-47-8	80.0000-90.0000

In accordance with paragraph (d) of 1910.1200, the exact percentage (concentration) has been withheld as a trade secret. Other components are below reportable levels.

Section 4 - FIRST-AID MEASURES

- Aspiration Pneumonia Hazard:** May be fatal if swallowed and enters airways
- Inhalation:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice
- Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- 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:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
- Self Protection of the First Responder:** Use personal protective equipment as required.
- Note to Physicians:** 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).

Section 5 - FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Treat for surrounding material.
- Unsuitable Extinguishing Media:** Caution: Use of water spray when fighting fire may be inefficient.
- Specific Hazards Arising from the Chemical:** Products of combustion may include, and are not limited to: Carbon monoxide, Carbon dioxide (CO₂).
- Special Protective Equipment and Precautions for Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respirator protection (SCBA).

Section 6 - ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment and Emergency Procedures:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
- Methods and Materials for Containment and Cleaning Up:** Prevent further leakage or spillage if safe to do so.
Cover liquid spill with sand, earth or other non-combustible absorbent material.
Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into storm sewers and waterways. See Section 12 for additional ecological information. Report spills as required by local and national regulations.

Section 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: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. For more information, see product label.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines:

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Hydro-treated middle-distillate (Petroleum) 64742-46-7	TWA: 5 mg/m3 Inhalable fraction	TWA: 400 mg/m3 / 100 ppm TWA: 5 mg/m3 Mist	-	-
Petroleum distillates, hydrotreated light	-	-	-	TWA: 100 ppm TWA: 525 mg/m3

Appropriate Engineering Controls: Safety showers
 Eyewash stations
 Ventilation systems

Individual Protective Measures, Such as Personal Protective Equipment:

Eye/face protection: Protective eyewear is recommended, but is not required.
 Skin and body protection: Protective gloves are recommended, but are not required.
 Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations: When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Clear, colorless liquid
Odor:	Slight - Solvent
Odor Threshold:	No data available
pH:	5.62
Melting / Freezing Point:	No data available
Initial boiling point and range:	No data available
Flashpoint:	> 93.3 °C / > 200.0 °F - Tag Closed Cup
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	0.796 g/cm ³ @ 22.4 °C
Solubility, Water:	No data available
Miscibility, Petroleum Distillates:	Miscible
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	4.47 cPs at 20.0 °C

Section 10 - STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Extremes of temperature and direct sunlight
Incompatible materials:	Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Section 11 - TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhalation, Ingestion and/or skin or eye contact

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation:	Harmful if inhaled
Ingestion:	May be fatal if swallowed and enters airways
Skin contact:	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Eye contact:	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Acute Toxicity Values:

Calculated overall Chemical Acute Toxicity Values (ATE)		
LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
>5000 mg/kg	>5000 mg/kg	>2.08mg/L

Eye Contact: Minimal eye irritation.
Skin Contact: Slightly Irritating.
Sensitization: Negative.

**Chronic Effects-
Carcinogenicity:**

Ingredient	Chemical Listed as a Carcinogen or Potential Carcinogen (NTP, IARC, OSHA)
This product does not contain any carcinogens or potential carcinogens as listed by NTP, IARC or OSHA.	

Reproductive Toxicity: No information available.
Germ Cell Mutagenicity: No information available.
STOT-single exposure: No information available.
STOT-repeated exposure: No information available.
Aspiration hazard: No information available.

Comment: All information was generated using the GHS classification criteria for mixtures and test data where available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available
Environmental Hazards (EPA): Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all local, state/provincial and federal regulations. For more information see product label.

Section 14 - TRANSPORTATION INFORMATION

Formula and Device:

DOT:	UN Number:	UN3481
	Proper Shipping Name:	Lithium ion batteries contained in equipment including lithium ion polymer batteries
	Technical Name:	Metofluthrin
	Hazard Class:	9
IMDG:	UN Number:	UN3481
	Proper Shipping Name:	Lithium ion batteries contained in equipment including lithium ion polymer batteries
	Technical Name:	Metofluthrin
	Hazard Class:	9
	Marine Pollutant:	Yes
IATA:	UN Number:	UN3481
	Proper Shipping Name:	Lithium ion batteries contained in equipment including lithium ion polymer batteries
	Technical Name:	Metofluthrin
	Packing Group:	III
	Limited Quantity:	≤5L
	Marine Pollutant:	Yes

Formula Only:

DOT:	Not Regulated	
IATA:	Not Regulated	
IMDG:	UN Number:	UN3082
	Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.
	Technical Name:	Metofluthrin
	Hazard Class:	9
	Packing Group:	III
	Limited Quantity:	≤5L
Marine Pollutant:	Yes	

Section 15 - REGULATORY INFORMATION

EPA TSCA Inventory: All of the components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

CERCLA Section 103:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA Hazard Category (311/312):	Acute health hazard	Yes
	Chronic Health Hazard	No
	Fire hazard	No
	Sudden release of pressure hazard	No
	Reactive Hazard	No

SARA 313: Section 313 of title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain any intentionally added Proposition 65 chemicals

Canadian Environmental Protection Act: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Disclaimer:

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Section 16 - OTHER INFORMATION

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