

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; HG-94264W; HG-94280  
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 1-888-880-1181

**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.

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#### Section 4 - FIRST-AID MEASURES

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**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).

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#### Section 5 - FIRE-FIGHTING MEASURES

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**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 (CO<sub>2</sub>).

**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).

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#### Section 6 - ACCIDENTAL RELEASE MEASURES

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**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:** 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

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**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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

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**Section 10 - STABILITY AND REACTIVITY**

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

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**Section 11 - TOXICOLOGICAL INFORMATION**

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**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.

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**Section 12 - ECOLOGICAL INFORMATION**

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**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.

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**Section 13 - DISPOSAL CONSIDERATIONS**

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

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**Section 14 - TRANSPORTATION INFORMATION**

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Formula and Device:

<b>DOT:</b>	UN Number:	UN3481
	Proper Shipping Name:	Lithium ion batteries contained in equipment including lithium ion polymer batteries
	Technical Name:	Metofluthrin
	Hazard Class:	9
<b>IMDG:</b>	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
<b>IATA:</b>	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

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Formula Only:

<b>DOT:</b>	Not Regulated	
<b>IATA:</b>	Not Regulated	
<b>IMDG:</b>	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

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**Section 15 - REGULATORY INFORMATION**

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**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.

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

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#### **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.

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#### **Section 16 - OTHER INFORMATION**

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