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

1.1. Product identifier
   Mixture identification:
   Trade name: IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL
   Trade code: ZSDS17002

1.2. Relevant identified uses of the substance or mixture and uses advised against
   Recommended use: Solid insecticide

1.3. Details of the supplier of the safety data sheet
   Company: ZOBELE HOLDING S.p.A
   Via Fersina 4 - 38123 - Trento (Italy)
   ZOBELE HOLDING S.p.A - Phone n.+39 0461/303700 (Working hours)
   Competent person responsible for the safety data sheet: info@zobele.com

1.4. Emergency telephone number
   ZOBELE HOLDING S.p.A - Phone n.+39 0461/303700 (Working hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:
   Properties / Symbols:
   N Dangerous for the environment
   R Phrases:
   R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

   EC regulation criteria 1272/2008 (CLP):
   Warning, Aquatic Acute 1, Very toxic to aquatic life.
   Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements
   Symbols:
   N Dangerous for the environment
   R Phrases:
   R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
   S Phrases:
   S2 Keep out of the reach of children.
   S29/56 Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.
   S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

2.3. Other hazards
   vPvB Substances: None - PBT Substances: None
   Other Hazards: No other hazards
SECTION 3: Composition/information on ingredients

3.1. Substances - N.A.
3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

21.97 % d-Allethrin; (Pynamin forte); (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R,3R;1R,3S)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Index number: 006-025-00-3, CAS: 231937-89-6, EC: 209-542-4
Xn,N; R20/22-50/53

3.1/4/Inhal Acute Tox. 4 H332
3.1/4/Oral Acute Tox. 4 H302
4.1/A1 Aquatic Acute 1 H400
4.1/C1 Aquatic Chronic 1 H410

7.69 % Hydrocarbons, C12-C16, isoalkanes, cyclic <2% aromatics

REACH No.: 01-2119456377-30, EC: 927-676-8
Xn; R65-66
2.6/3 Flam. Liq. 3 H226
3.10/1 Asp. Tox. 1 H304

1.92 % Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

REACH No.: 01-2119456810-40, EC: 920-901-0
Xn; R65-66
2.6/3 Flam. Liq. 3 H226
3.10/1 Asp. Tox. 1 H304

3.2/2 Skin Irrit. 2 H315

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact: Wash with plenty of water and soap.
In case of eyes contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of Ingestion: Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed - None

4.3. Indication of any immediate medical attention and special treatment needed
Treatment: None

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Water.
Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters
Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

ZSDS17002/3
Page n. 2 of 6
SECTION 7: Handling and storage

7.1. Precautions for safe handling
- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
- Keep away from food, drink and feed.
- Incompatible materials: None in particular.
- Instructions as regards storage premises: Adequately ventilated premises.

7.3. Specific end use(s) - None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
- Hydrocarbons, C12-C16, isoalkanes, cyclic <2% aromatics
  TLV TWA - 200 mg/m3
- Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
  TLV TWA - 1200 mg/l
- DNEL Exposure Limit Values - N.A.
- PNEC Exposure Limit Values - N.A.

8.2. Exposure controls
- Eye protection: Not needed for normal use. Anyway, operate according good working practices.
- Protection for skin: No special precaution must be adopted for normal use.
- Protection for hands: Not needed for normal use.
- Respiratory protection: Not needed for normal use.
- Thermal Hazards: None
- Environmental exposure controls: None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
- Appearance and colour: Blue cardboard insecticide mat weighing about 2100mg
- Odour: Characteristic
- Odour threshold: N.A.
- pH: N.A.
- Melting point / freezing point: N.A.
- Initial boiling point and boiling range: N.A.
- Solid/gas flammability: N.A.
- Upper/lower flammability or explosive limits: N.A.
- Vapour density: N.A.
- Flash point: N.A.
- Evaporation rate: N.A.
- Vapour pressure: N.A.
- Relative density: N.A.
- Solubility in water: Partially miscible
- Solubility in oil: Partially miscible
- Partition coefficient (n-octanol/water): N.A.
- Auto-ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

9.2. Other information
- Miscibility: N.A.
- Fat Solubility: N.A.
- Conductivity: N.A.
- Substance Groups relevant properties: N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity - Stable under normal conditions
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture: N.A.

Toxicological information of the main substances found in the mixture:

- d-Allethrin; (Pynamin forte); (RS)-3-allyl-2-methyl-4-oxocyclopent-2-etyl
  \((1R,3R;1R,3S)-2,2\text{-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate} - \text{CAS: 231937-89-6}\)
  a) acute toxicity:
    - Test: LD50 - Route: Oral - Species: Rat 900 mg/kg
    - Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
    - Test: LC50 - Route: Inhalation - Species: Rat 3.85 mg/l - Duration: 4h
  Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
  a) acute toxicity:
    - Test: LC50 - Route: Inhalation - Species: Rat 5000 mg/m3 - Duration: 8h
    - Test: LC50 - Route: Oral - Species: Rat 5000 mg/kg
    - Test: LC50 - Route: Skin - Species: Rabbit 5000 mg/kg

IC-REFL-MAT-BULK-THERMACELL BIG MAT PHIL -

- d-Allethrin; (Pynamin forte); (RS)-3-allyl-2-methyl-4-oxocyclopent-2-etyl
  \((1R,3R;1R,3S)-2,2\text{-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate} - \text{CAS: 231937-89-6}\)

- EYE RBT Non-irritant
- IHL RAT LC50 >3,875 mg/l
- ORL RAT LC50 900 mg/Kg
- SKN GPG Non-sensitiser
- SKN RBT Non-irritant
- SKN RBT LD50 2260 mg/Kg

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:
  a) acute toxicity;
  b) skin corrosion/irritation;
  c) serious eye damage/irritation;
  d) respiratory or skin sensitisation;
  e) germ cell mutagenicity;
  f) carcinogenicity;
  g) reproductive toxicity;
  h) STOT-single exposure;
  i) STOT-repeated exposure;
  j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- d-Allethrin; (Pynamin forte); (RS)-3-allyl-2-methyl-4-oxocyclopent-2-etyl
  \((1R,3R;1R,3S)-2,2\text{-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate} - \text{CAS: 231937-89-6}\)

  a) Aquatic acute toxicity:
    - Endpoint: LC50 - Species: Fish 0.134 mg/l - Duration: 96h
    - Endpoint: EC50 - Species: Daphnia 0.047 mg/l - Duration: 48h

12.2. Persistence and degradability - None

- d-Allethrin; (Pynamin forte); (RS)-3-allyl-2-methyl-4-oxocyclopent-2-etyl
  \((1R,3R;1R,3S)-2,2\text{-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate} - \text{CAS: 231937-89-6}\)

Biodegradability: Non-rapidly degradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

12.3. Bioaccumulative potential - N.A.

12.4. Mobility in soil - N.A.

12.5. Results of PBT and vPvB assessment

  vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects - None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.
SECTION 14: Transport information

14.1. UN number
ADR-UN number: 3077
IATA-Un number: 3077
IMDG-Un number: 3077

14.2. UN proper shipping name
ADR-Shipping Name: Environmentally hazardous substance, solid, N.O.S (d-Allethrin), Limited quantity
IATA-Technical name: Environmentally hazardous substance, solid, N.O.S (d-Allethrin), Limited quantity
IMDG-Technical name: Environmentally hazardous substance, solid, N.O.S (d-Allethrin), Limited quantity

14.3. Transport hazard class(es)
ADR-Class: 9
IATA-Class: 9
IMDG-Class: 9

14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards
Marine pollutant: Marine pollutant

14.6. Special precautions for user
IMDG-Technical name: Environmentally hazardous substance, solid, N.O.S (d-Allethrin), Limited quantity

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - No

SECTION 15: Regulatory information

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

Where applicable, refer to the following regulatory provisions:
1999/13/EC (VOC directive)

15.2. Chemical safety assessment - No

SECTION 16: Other information

Text of phrases referred to under heading 3:
R20/22 Harmful by inhalation and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

H332 Harmful if inhaled.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 4: First aid measures
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
- CCNL - Appendix 1

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.
SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Mixture
Product Name: C-15 Cartridge

Intended Use of the Product
As Gas Cartridge or Energy Cell.

Name, Address, and Telephone of the Responsible Party
Company
Thermacell Repellents, Inc
26 Crosby Dr
Bedford, MA 01730
781-541-6900
www.thermacell.com

Emergency Telephone Number
Emergency Number : 703-527-3887 CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Simple Asphy
Flam. Gas 1 H220
Liquefied gas H280

2.2. Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US):

![Hazard Pictograms](image)

Signal Word (GHS-US): Danger
H280 - Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary Statements (GHS-US):
P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.
P403 - Store in a well-ventilated place.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.

Other Hazards: Exposure to high vapor concentrations can lead to nausea, headache, dizziness, and in extreme cases, loss of consciousness and death in oxygen deficient environments. Prolonged exposure to vapor may affect the central nervous system. Contact with liquid LPG can cause cold burns. Contains Sulfur, may release small amounts of hydrogen sulfide. Hydrogen sulfide is a highly flammable, explosive gas under certain conditions, is a toxic gas, and may be fatal.

Unknown Acute Toxicity (GHS-US): Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
</table>
| Petroleum gases, liquefied | (CAS No) 68476-85-7 | 100 | Simple Asphy
Flam. Gas 1, H220
Liquefied gas, H280 |
C-15 Cartridge

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<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
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<td>Butane</td>
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<td>Isobutane</td>
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<td>Propane</td>
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<td>Sulfur</td>
<td>(CAS No) 7704-34-9</td>
<td>&lt;= 0.015</td>
<td>Comb. Dust Skin Irrit. 2, H315 Aquatic Acute 3, H402</td>
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</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention. If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

Ingestion: Rinse mouth. Do NOT induce vomiting.

Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Asphyxiant gas. Compressed gases may create low temperatures when they expand rapidly. Leaks and uses that allow rapid expansion may cause a frostbite hazard.

Symptoms/Injuries After Inhalation: May cause drowsiness or dizziness. Vapors are heavier than air and may cause asphyxia by reduction of the oxygen content.

Symptoms/Injuries After Skin Contact: May cause skin irritation. May cause frostbite on contact with the liquefied gas.

Symptoms/Injuries After Eye Contact: May cause eye irritation. May cause frostbite.

Symptoms/Injuries After Ingestion: Ingestion is an unlikely route of exposure for a gas.

Chronic Symptoms: None known.

Indication of Any Immediate Medical Attention and Special Treatment Needed
If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical, carbon dioxide, water spray, fog.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Extremely flammable gas. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Explosion Hazard: May form flammable/explosive vapor-air mixture. Heating may cause an explosion. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Hazardous reactions will not occur under normal conditions. Pressurized container: may burst if heated.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
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Firefighting Instructions: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leaking gas fire, eliminate all ignition sources if safe to do so. Do not allow run-off from firefighting to enter drains or water courses – may cause explosion hazard in drains and may reignite on surface water. Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide and low molecular weight hydrocarbons.

Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Eliminate every possible source of ignition. Do not breathe gas. Use only outdoors or in a well-ventilated area. Ruptured cylinders may rocket.

For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).


For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions
Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: If possible, stop flow of product.

Methods for Cleaning Up: Use water spray to reduce vapors or divert vapor cloud drift.

Reference to Other Sections
See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Use only as directed by the information identified in the package insert. Handle empty containers with care because residual vapors are flammable. Do not puncture or incinerate container.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Protect from heat and direct sunlight.


Specific End Use(s): As Gas Cartridge or Energy Cell

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mexico OEL TWA (mg/m³)</th>
<th>Mexico OEL TWA (ppm)</th>
<th>USA ACGIH ACGIH STEL (ppm)</th>
<th>USA NIOSH NIOSH REL (TWA) (mg/m³)</th>
<th>USA NIOSH NIOSH REL (TWA) (ppm)</th>
<th>Alberta OEL TWA (ppm)</th>
<th>British Columbia OEL STEL (ppm)</th>
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<tr>
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05/07/2015 EN (English US)
## C-15 Cartridge
### Safety Data Sheet

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</tr>
<tr>
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<tr>
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</tr>
<tr>
<td>Prince Edward Island</td>
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<tr>
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<tr>
<td>Yukon</td>
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<td>1250 ppm</td>
<td>1250 ppm</td>
<td>800 ppm</td>
</tr>
</tbody>
</table>

### Isobutane (75-28-5)

| USA ACGIH | ACGIH STEL (ppm) | 1000 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m³) | 1900 mg/m³ |
| USA NIOSH | NIOSH REL (TWA) (ppm)  | 800 ppm  |
| Manitoba  | OEL STEL (ppm)    | 1000 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 1000 ppm |
| Nova Scotia | OEL STEL (ppm)   | 1000 ppm |
| Ontario   | OEL TWA (ppm)     | 800 ppm  |
| Prince Edward Island | OEL STEL (ppm) | 1000 ppm |
| Saskatchewan | OEL TWA (ppm)   | 1000 ppm |
| Yukon     | OEL TWA (ppm)     | 1000 ppm |

### Sulfur (7704-34-9)

| Alberta | OEL TWA (mg/m³) | 10 mg/m³ |

### Petroleum gases, liquefied (68476-85-7)

| Mexico | OEL TWA (mg/m³) | 1800 mg/m³ |
| Mexico | OEL TWA (ppm)  | 1000 ppm  |
| Mexico | OEL STEL (mg/m³) | 2250 mg/m³ |
| Mexico | OEL STEL (ppm) | 1250 ppm |
| USA ACGIH | ACGIH TWA (ppm) | 1000 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 1800 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m³) | 1800 mg/m³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 1000 ppm |
| USA IDLH | US IDLH (ppm) | 2000 ppm |
| Alberta | OEL STEL (ppm) | 1500 ppm |
| Alberta | OEL TWA (ppm)  | 1000 ppm |
| British Columbia | OEL STEL (ppm) | 1250 ppm |
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<table>
<thead>
<tr>
<th>Location</th>
<th>OEL TWA (ppm)</th>
<th>OEL TWA (mg/m³)</th>
<th>OEL STEL (ppm)</th>
<th>OEL STEL (mg/m³)</th>
<th>OEL TWA (ppm)</th>
<th>OEL TWA (mg/m³)</th>
<th>OEL STEL (ppm)</th>
<th>OEL STEL (mg/m³)</th>
<th>OEL TWA (ppm)</th>
<th>OEL TWA (mg/m³)</th>
<th>OEL STEL (ppm)</th>
<th>OEL STEL (mg/m³)</th>
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<tbody>
<tr>
<td>British Columbia</td>
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<td>2250 mg/m³</td>
<td>1000 ppm</td>
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<td>1250 ppm</td>
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<td>1000 ppm</td>
<td>1800 mg/m³</td>
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<tr>
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<td>1250 ppm</td>
<td>2250 mg/m³</td>
</tr>
<tr>
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<td>1000 ppm</td>
<td>1800 mg/m³</td>
<td>1250 ppm</td>
<td>2250 mg/m³</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
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<td>1250 ppm</td>
<td>2250 mg/m³</td>
<td>1000 ppm</td>
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<td>1000 ppm</td>
<td>1800 mg/m³</td>
<td>1250 ppm</td>
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</tr>
<tr>
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<tr>
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<td>1000 ppm</td>
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<td>1000 ppm</td>
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<td>1250 ppm</td>
<td>2250 mg/m³</td>
</tr>
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<td>1000 ppm</td>
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<td>1800 mg/m³</td>
<td>1250 ppm</td>
<td>2250 mg/m³</td>
</tr>
<tr>
<td>Yukon</td>
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<td>2250 mg/m³</td>
<td>1000 ppm</td>
<td>1800 mg/m³</td>
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<td>1000 ppm</td>
<td>1800 mg/m³</td>
<td>1250 ppm</td>
<td>2250 mg/m³</td>
</tr>
</tbody>
</table>

Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases/vapors may be released.

**Personal Protective Equipment:** Not generally required. The use of personal protective equipment may be necessary as conditions warrant.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Flame retardant antistatic protective clothing.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Thermal Hazard Protection:** If material is cold, wear thermally resistant protective gloves.

**Other Information:** When using, do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Gas</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Faint Disagreeable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
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<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-40 °C (-40 °F)</td>
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<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
</tbody>
</table>
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Vapor Pressure : Not available
Relative Vapor Density at 20 °C : Not available
Specific Gravity : Not available
Solubility : Insoluble in water
Partition Coefficient: N-Octanol/Water : Not available
Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Sensitive to mechanical impact.
Explosion Data – Sensitivity to Static Discharge : Static discharge could act as an ignition source.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions. Pressurized container: may burst if heated.
Chemical Stability: Extremely flammable gas.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Hazardous Decomposition Products: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product
Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause drowsiness or dizziness. Vapors are heavier than air and may cause asphyxia by reduction of the oxygen content.
Symptoms/Injuries After Skin Contact: May cause skin irritation. May cause frostbite on contact with the liquefied gas.
Symptoms/Injuries After Eye Contact: May cause eye irritation. May cause frostbite.
Symptoms/Injuries After Ingestion: Ingestion is an unlikely route of exposure for a gas.
Chronic Symptoms: None known.

Information on Toxicological Effects - Ingredient(s)
LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 (mg/kg)</th>
<th>LC50 (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (106-97-8)</td>
<td>&gt; 3000</td>
<td>&gt; 9.23</td>
</tr>
<tr>
<td>Isobutane (75-28-5)</td>
<td>&gt; 2000</td>
<td>&gt; 658</td>
</tr>
<tr>
<td>Sulfur (7704-34-9)</td>
<td></td>
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</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Ecology - General: Not classified.

Sulfur (7704-34-9)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>736 mg/l</td>
</tr>
<tr>
<td>LC 50 Fish 2</td>
<td>14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
</tbody>
</table>
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**Persistence and Degradability** Not established

**Bioaccumulative Potential**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (106-97-8)</td>
<td>2.89</td>
</tr>
</tbody>
</table>

**Mobility in Soil** Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**SECTION 14: TRANSPORT INFORMATION**

**In Accordance with DOT**
Proper Shipping Name: GAS CARTRIDGES, (flammable) without a release device, non-refillable
Hazard Class: 2.1
Identification Number: UN2037
Label Codes: 2.1
ERG Number: 115

When in containers of not more than 4 fluid ounces capacity (7.22 cubic inches or less), this product may be shipped as a limited quantity or consumer quantity.

**In Accordance with IMDG**
Proper Shipping Name: RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable
Hazard Class: 2
Identification Number: UN2037
Label Codes: 2.1
EmS-No. (Fire): F-D
EmS-No. (Spillage): S-U

**In Accordance with IATA**
Proper Shipping Name: GAS CARTRIDGES without a release device, non-refillable
Identification Number: UN2037
Hazard Class: 2
Label Codes: 2.1
ERG Code (IATA): 10L

**In Accordance with TDG**
Proper Shipping Name: GAS CARTRIDGES WITHOUT A RELEASE DEVICE, NON-REFILLABLE
Hazard Class: 2.1
Identification Number: UN2037
Label Codes: 2.1

**SECTION 15: REGULATORY INFORMATION**

**US Federal Regulations**

<table>
<thead>
<tr>
<th>SARA Section 311/312 Hazard Classes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sudden release of pressure hazard</td>
<td></td>
</tr>
<tr>
<td>Fire hazard</td>
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</tr>
</tbody>
</table>

**Butane (106-97-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory
# C-15 Cartridge

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## Isobutane (75-28-5)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Sulfur (7704-34-9)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Petroleum gases, liquefied (68476-85-7)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

#### Butane (106-97-8)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Isobutane (75-28-5)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Sulfur (7704-34-9)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Petroleum gases, liquefied (68476-85-7)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

### Canadian Regulations

#### C-15 Cartridge

| WHMIS Classification | Class B Division 1 - Flammable Gas  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class A - Compressed Gas</td>
</tr>
</tbody>
</table>

#### Butane (106-97-8)

- Listed on the Canadian DSL (Domestic Substances List)
- Listed on the Canadian IDL (Ingredient Disclosure List)

| IDL Concentration 1 % | Class A - Compressed Gas  
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Class B Division 1 - Flammable Gas</td>
</tr>
</tbody>
</table>

#### Isobutane (75-28-5)

- Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Class A - Compressed Gas  
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Class B Division 1 - Flammable Gas</td>
</tr>
</tbody>
</table>

#### Sulfur (7704-34-9)

- Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Class B Division 4 - Flammable Solid  
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</thead>
<tbody>
<tr>
<td></td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

#### Petroleum gases, liquefied (68476-85-7)

- Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Class A - Compressed Gas  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class B Division 1 - Flammable Gas</td>
</tr>
</tbody>
</table>
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/07/2015

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>H220</td>
<td>Extremely flammable gas</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
<tr>
<td>Comb. Dust</td>
<td>May form combustible dust concentrations in air</td>
</tr>
<tr>
<td>Flam. Gas 1</td>
<td>Flammable gases Category 1</td>
</tr>
<tr>
<td>Simple Asphy</td>
<td>Simple Asphyxiant</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Aquatic Acute 3</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 3</td>
</tr>
</tbody>
</table>

### Party Responsible for the Preparation of This Document

Thermacell Repellents, Inc.

781-541-6900

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2