

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

### 1.1. Product identifier

<b>Name of the substance</b>	Thermacell Butane Cartridge
<b>Identification number</b>	649-202-00-6 (Index number)
<b>Registration number</b>	-
<b>UFI:</b>	8173-007P-P009-8J66
<b>Synonyms</b>	None.
<b>Product code</b>	C-15

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	Gas cartridge.
<b>Uses advised against</b>	Use only per label directions.

### 1.3. Details of the supplier of the safety data sheet

<b>Company name</b>	Thermacell Europe AB
<b>Address</b>	Skärhammsgatan 30 41674 Göteborg Sweden
<b>Website</b>	www.thermacell.com
<b>Emergency telephone</b>	CHEMTREC: +1-703-527-3887 CCN 19760

### 1.4. Emergency telephone number

<b>General in EU</b>	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable gases	Category 1A	H220 - Extremely flammable gas.
Gases under pressure	Liquefied gas	H280 - Contains gas under pressure; may explode if heated.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Petroleum gases, liquified

##### Hazard pictograms



**Signal word** Danger

##### Hazard statements

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

#### Precautionary statements

##### Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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##### Response

P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	In case of leakage, eliminate all ignition sources.

##### Storage

P410 + P403	Protect from sunlight. Store in a well-ventilated place.
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<b>Disposal</b>	Not assigned.
<b>Supplemental information on the label</b>	None.
<b>2.3. Other hazards</b>	May displace oxygen and cause rapid suffocation. Contact with liquefied gas may cause frostbite. This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Petroleum gases, liquified	100	68476-85-7 270-704-2	-	649-202-00-6	
<b>Classification:</b> Flam. Gas 1A;H220, Press. Gas;H280					U,K,S

#### Constituents

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
n-Butane	≤ 60	106-97-8 203-448-7	-	601-004-01-8	
Isobutane	≤ 40	75-28-5 200-857-2	-	601-004-01-8	
Propane	≤ 1	74-98-6 200-827-9	-	601-003-00-5	
1,3-Butadiene	< 0,1	106-99-0 203-450-8	-	601-013-00-X	#
Sulphur	≤ 150 ppm	7704-34-9 231-722-6	-	016-094-00-1	

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

Note U (Table 3.1): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Note K - The harmonized classification as a carcinogen or mutagen does not apply because the substance contains less than 0.1 % w/w of 1,3-butadiene (EINECS No 203-450-8).

Note S: This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1). This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2).

<b>Composition comments</b>	The full text for all H-statements is displayed in section 16. Gas concentrations are in percent by volume.
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## SECTION 4: First aid measures

<b>General information</b>	First aid personnel must be aware of own risk during rescue. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
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### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
<b>Skin contact</b>	Not likely, due to the form of the product. If frostbite occurs, immerse affected area in warm water (not exceeding 105°F/41°C). Keep immersed for 20 to 40 minutes. Get medical attention immediately.
<b>Eye contact</b>	Not likely, due to the form of the product. If frostbite occurs, immediately flush eyes with plenty of warm water (not exceeding 105°F/41°C) for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms persist or occur after washing.
<b>Ingestion</b>	This material is a gas under normal atmospheric conditions and ingestion is unlikely.

<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect himself.
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**4.3. Indication of any immediate medical attention and special treatment needed**

Exposure may aggravate pre-existing respiratory disorders. Provide general supportive measures and treat symptomatically.

## **SECTION 5: Firefighting measures**

**General fire hazards**

Extremely flammable gas. Contents under pressure. Pressurised container may explode when exposed to heat or flame.

**5.1. Extinguishing media**

**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.

**5.2. Special hazards arising from the substance or mixture**

Extremely flammable gas. May form explosive mixtures with air. Gas may travel considerable distance to a source of ignition and flash back. During fire, hazardous combustion products are released that may include: Carbon dioxide.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters**

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

**Special fire fighting procedures**

In case of fire and/or explosion do not breathe fumes. Remove or isolate all sources of ignition. Do not extinguish a leaking gas fire unless leak can be stopped. Stop leak if you can do so without risk. Move containers from fire area if you can do so without risk. Do not direct water at source of leak or safety devices as icing may occur. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Specific methods**

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

## **SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment.

**For emergency responders**

In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. No action shall be taken involving any personal risk or without suitable training. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep out of low areas. Emergency personnel need self-contained breathing equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**6.3. Methods and material for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop the flow of material, if this is without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed.

**6.4. Reference to other sections**

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## **SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Contents under pressure. Do not puncture or incinerate container. Do not expose to heat. Protect containers from damage. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO<sub>2</sub> = 135 mmHg). Mechanical ventilation or local exhaust ventilation may be required. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities**

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see section 10 of the SDS).

**7.3. Specific end use(s)**

Gas cartridge.

## **SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

No exposure limits noted for ingredient(s).

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.
<b>Derived no effect levels (DNELs)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	Not available.
<b>Exposure guidelines</b>	
<b>8.2. Exposure controls</b>	
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166. Applicable for industrial settings only.
<b>Skin protection</b>	
<b>- Hand protection</b>	Wear suitable gloves tested to EN374. Nitrile gloves are recommended. Use gloves with breakthrough time of 15 minutes. Minimum glove thickness 0.6 mm. Applicable for industrial settings only.
<b>- Other</b>	Wear suitable protective clothing. Applicable for industrial settings only.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA). Check with respiratory protective equipment suppliers. Applicable for industrial settings only.  WARNING! Air-purifying respirators do not protect workers in oxygen deficient atmospheres.
<b>Thermal hazards</b>	Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Wear appropriate thermal protective clothing, when necessary. Applicable for industrial settings only.
<b>Hygiene measures</b>	When using do not smoke. 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.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Gas.
<b>Form</b>	Compressed liquefied gas.
<b>Colour</b>	Colourless.
<b>Odour</b>	Faint disagreeable odor.
<b>Odour threshold</b>	Not determined.
<b>Melting point/freezing point</b>	< -180 °C (< -292 °F)
<b>Boiling point or initial boiling point and boiling range</b>	-1 °C (30,2 °F) (@ 1013 hPa)
<b>Flammability</b>	Extremely flammable gas.
<b>Lower and upper explosion limit</b>	
<b>Explosive limit - lower (%)</b>	8,5 % (@ 1013 hPa)
<b>Explosive limit – upper (%)</b>	1,44 % (@ 1013 hPa)
<b>Flash point</b>	-40 °C (-40 °F)
<b>Auto-ignition temperature</b>	410 °C (770 °F) (@ 1013 hPa)
<b>Decomposition temperature</b>	Not applicable as the product is not unstable.
<b>pH</b>	Not applicable. Material is non soluble in water.
<b>Kinematic viscosity</b>	Not applicable for product form.

<b>Solubility</b>	
<b>Solubility (water)</b>	< 0,1 % Insoluble in water.
<b>Partition coefficient (n-octanol/water) (log value)</b>	Property has not been measured.
<b>Vapour pressure</b>	345 kPa (20 °C (68 °F))
<b>Density and/or relative density</b>	
<b>Density</b>	563 kg/m <sup>3</sup> (Liquid phase)
<b>Relative density</b>	Property has not been measured.
<b>Vapour density</b>	2 (Air=1) (15 °C (59 °F))
<b>Particle characteristics</b>	
<b>Particle size</b>	Not applicable for product form.

## 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

### 9.2.2. Other safety characteristics

<b>Evaporation rate</b>	Property has not been measured.
<b>Molecular formula</b>	UVCB
<b>Viscosity</b>	Not applicable for product form.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates causing fire and explosion hazard.
<b>10.2. Chemical stability</b>	Stable under normal temperature conditions and recommended use.
<b>10.3. Possibility of hazardous reactions</b>	May form explosive mixture with air.
<b>10.4. Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Strong acids. Halogens. Nitrates. Nitrites. Chlorites. Inorganic chlorides. Perchlorates.
<b>10.6. Hazardous decomposition products</b>	Thermal decomposition of this product can generate carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	High concentrations: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness.
<b>Skin contact</b>	Contact with liquefied gas may cause frostbite.
<b>Eye contact</b>	Contact with liquefied gas may cause frostbite.
<b>Ingestion</b>	This material is a gas under normal atmospheric conditions and ingestion is unlikely.

**Symptoms** Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves.

### 11.1. Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

### Toxicological data

Constituents	Species	Test Results
Propane (CAS 74-98-6)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
Gas		
LC50	Rat	> 80000 ppm, 15 Minutes
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.	

<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Not relevant, due to the form of the product.
<b>Mixture versus substance information</b>	No information available.

#### 11.2. Information on other hazards

<b>Endocrine disrupting properties</b>	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other information</b>	Exposure over a long period of time may cause central nervous system effects.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	The product is not expected to be hazardous to the environment.
<b>12.2. Persistence and degradability</b>	Not relevant, due to the form of the product.
<b>12.3. Bioaccumulative potential</b>	Not relevant, due to the form of the product.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
n-Butane (CAS 106-97-8)	2,89
Isobutane (CAS 75-28-5)	2,76
Propane (CAS 74-98-6)	2,36
1,3-Butadiene (CAS 106-99-0)	1,99
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not relevant, due to the form of the product.
<b>12.5. Results of PBT and vPvB assessment</b>	This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.
<b>12.6. Endocrine disrupting properties</b>	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>12.7. Other adverse effects</b>	The product contains volatile organic compounds which have a photochemical ozone creation potential.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose in accordance with all applicable regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	16 05 04* The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Use the container until empty. Do not dispose of any non-empty container. Empty containers have residual vapor that is flammable and explosive. Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture or incinerate even when empty. Dispose in accordance with all applicable regulations.
<b>Special precautions</b>	Dispose of in accordance with local regulations.

## SECTION 14: Transport information

<b>ADR</b>	
<b>14.1. UN number</b>	UN2037
<b>14.2. UN proper shipping name</b>	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable
<b>14.3. Transport hazard class(es)</b>	
Class	2.1
Subsidiary risk	-
Label(s)	2.1

<b>Hazard No. (ADR)</b>	-
<b>Tunnel restriction code</b>	D
<b>14.4. Packing group</b>	-
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
	Exempt from classification under Special Provision 191.

#### RID

<b>14.1. UN number</b>	UN2037
<b>14.2. UN proper shipping name</b>	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>14.4. Packing group</b>	-
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
	Exempt from classification under Special Provision 191.

#### ADN

<b>14.1. UN number</b>	UN2037
<b>14.2. UN proper shipping name</b>	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>14.4. Packing group</b>	-
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
	Exempt from classification under Special Provision 191.

#### IATA

<b>14.1. UN number</b>	UN2037
<b>14.2. UN proper shipping name</b>	Receptacles, small, containing gas or gas cartridges (flammable), without release device, not refillable
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>14.4. Packing group</b>	-
<b>14.5. Environmental hazards</b>	No
<b>ERG Code</b>	10L
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
	Containers less than 1 kg shipped as Limited Quantity.

#### IMDG

<b>14.1. UN number</b>	UN2037
<b>14.2. UN proper shipping name</b>	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non refillable
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2
<b>Subsidiary risk</b>	-
<b>14.4. Packing group</b>	-
<b>14.5. Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>EmS</b>	F-D, S-U
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
	Exempt from classification under Special Provision 191.

**14.7. Maritime transport in bulk according to IMO instruments** Not applicable.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Petroleum gases, liquified (CAS 68476-85-7)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Petroleum gases, liquified (CAS 68476-85-7)

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Petroleum gases, liquified (CAS 68476-85-7)

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

The label elements listed in section 2.2. may be omitted from the label of packages that do not exceed 125 ml of capacity.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV)**

Not listed.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

One or more of the components of the mixture are not listed on the EINECS or ELINCS inventories.

## SECTION 16: Other information

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

	<p>PBT: Persistent, bioaccumulative and toxic.</p> <p>RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.</p> <p>vPvB: Very persistent and very bioaccumulative.</p>
<b>References</b>	<p>ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices</p> <p>EPA: AQUIRE database</p> <p>HSDB® - Hazardous Substances Data Bank</p> <p>IARC Monographs. Overall Evaluation of Carcinogenicity</p> <p>National Toxicology Program (NTP) Report on Carcinogens</p> <p>NLM: Hazardous Substances Data Base</p>
<b>Information on evaluation method leading to the classification of mixture</b>	<p>The substance is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.</p>
<b>Full text of any H-statements not written out in full under Sections 2 to 15</b>	<p>H220 Extremely flammable gas.</p> <p>H280 Contains gas under pressure; may explode if heated.</p>
<b>Training information</b>	<p>Follow training instructions when handling this material.</p>
<b>Disclaimer</b>	<p>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.</p>