

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 3/3/2020 Revision date: 3/3/2020 Supersedes version of: 7/3/2018 Version: 2.1

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

#### **Product identifier** 1.1.

Product form : Mixture

Trade name : HUMAN USE INSECT REPELLENT BIOVECTROL HERBAL SPRAY

Product code : RELMIB002 Vaporizer Spray Packaged product code REMPBT080

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

#### Relevant identified uses

Intended for general public

Main use category : Consumer use

Function or use category : Repellents and attractants

# Uses advised against

No additional information available

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

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info@katadyn.fr

#### **Emergency telephone number**

**Emergency number** 

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Serious eye damage/eye irritation, Category H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation.

### Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) P103 - Read label before use. P102 - Keep out of reach of children.

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

P101 - If medical advice is needed, have product container or label at hand.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

P301+P312 - IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

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accordance with local, regional, national and/or international regulation.

EUH-statements : EUH208 - Contains Citronellal, Citronellol, Eucalyptol, Linalool y Limonene. May produce an

allergic reaction.

Child-resistant fastening : Not applicable
Tactile warning : Not applicable

2.3. Other hazards
PBT: not yet assessed
vPvB: not yet assessed

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name   | Product identifier   | %       | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP] |
|--|--|---------|---|
| Eucalyptus citriodora oil, hydrated, cyclized (Citriodiol®) (Active substance (Biocide)) | (CAS-No.) 1245629-80-4   | 30 – 40 | Eye Irrit. 2, H319  |
| propan-2-ol; isopropyl alcohol; isopropanol  | (CAS-No.) 67-63-0<br>(EC-No.) 200-661-7<br>(EC Index-No.) 603-117-00-0<br>(REACH-no) 01-2119457558-25-0005 | 10 – 20 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336           |

Full text of H-statements: see section 16

#### SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water, Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin

and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

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#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Use only outdoors or in a well-ventilated area. Flammable vapours may accumulate in

the container. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Maximum storage period : 3 year/s Store in dry, cool, well-ventilated area

Storage temperature : 5 – 30 °C

### 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

### Environmental exposure controls:

Avoid release to the environment.

#### SECTION 9: Physical and chemical properties

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

Physical state : Liquid
Appearance : Liquid

Colour : colourless to slightly yellow.
Odour : characteristic. lemon.

Odour threshold : No data available pH : 6.5 – 9.0 Potentiometry

Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : 26 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available

Density : 0.91 (0.89 - 0.93) g/ml Digital densimetry

Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not explosive.

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Oxidising properties : No data available Explosive limits : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Eucalyptus citriodora oil, hydrated, cyclized (Citriodiol®) (1245629-80-4) |                                     |  |
|--|-------------------------------------|--|
| LD50 oral rat > 2000 mg/kg (OECD 401 method)                               |                                     |  |
| LD50 dermal rat  | > 2000 mg/kg (OECD 402 method)      |  |
| LD50 dermal rabbit   | mal rabbit EPA/FIFRA Guideline 81-3 |  |
| LC50 Inhalation - Rat  | > 1.03 mg/l                         |  |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) |               |
|---|---------------|
| LD50 oral rat   | 5045 mg/kg    |
| LD50 dermal rat                                       | 12800 mg/kg   |
| LC50 Inhalation - Rat (Dust/Mist)                     | 72600 mg/l/4h |

Skin corrosion/irritation : Not classified

pH: 6.5 - 9.0 Potentiometry

Serious eye damage/irritation : Causes serious eye irritation.

pH: 6.5 – 9.0 Potentiometry

Respiratory or skin sensitisation : Not classified.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

| HUMAN USE INSECT REPELLENT BIOVECTROL HERBAL SPRAY |
|--|
|  |

Vaporizer Spray

### **SECTION 12: Ecological information**

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

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Hazardous to the aquatic environment, long-

: Not classified

term (chronic)

| Eucalyptus citriodora oil, hydrated, cyclized (Citriodiol®) (1245629-80-4) |                              |
|--|------------------------------|
| LC50 - Fish [1] > 35 mg/l Danio rerio (OECD 203)                           |                              |
| EC50 - Crustacea [1] > 26 mg/l (OECD 202 method)                           |                              |
| EC50 72h - Algae [1] > 37 mg/l Pseudokirchneriella (OECD 201)              |                              |
| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)                      |                              |
| propan-2-ol; isopropyl alcohol; isopropanol (                              | 67-63-0)                     |
| propan-2-ol; isopropyl alcohol; isopropanol (<br>LC50 - Fish [1]           | <b>67-63-0)</b><br>9640 mg/l |
|  |                              |

### 12.2. Persistence and degradability

| Eucalyptus citriodora oil, hydrated, cyclized (Citriodiol®) (1245629-80-4) |                        |
|--|------------------------|
| Persistence and degradability  | Readily biodegradable. |

#### 12.3. Bioaccumulative potential

| Eucalyptus citriodora oil, hydrated, cyclized (Citriodiol®) (1245629-80-4) |     |  |
|--|-----|--|
| Partition coefficient n-octanol/water (Log Pow)                            | 1.9 |  |
| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)                      |     |  |
| propan = or, respirately, area in a propanal (                             | /   |  |

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

| HUMAN USE INSECT REPELLENT BIOVECTROL HERBAL SPRAY    |  |  |  |
|---|--|--|--|
| PBT: not yet assessed                                 | PBT: not yet assessed  |  |  |
| vPvB: not yet assessed                                |  |  |  |
| Component   |  |  |  |
| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |  |  |

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG   | IATA  | ADN  | RID  |
|---|--|---|--|--|
| 14.1. UN number   |  |   |  |  |
| 1987  | 1987   | 1987  | 1987   | 1987   |
| 14.2. UN proper shippi  | ng name  |   |  |  |
| ALCOHOLS, N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt;; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol)</entity:1186022 field:_ch<br>                            | ALCOHOLS, N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt; ; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol)</entity:1186022 field:_ch<br>                    | Alcohols, n.o.s.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt;; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol)</entity:1186022 field:_ch<br>                  | ALCOHOLS, N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt;; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol)</entity:1186022 field:_ch<br>                     | ALCOHOLS, N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt; ; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol)</entity:1186022 field:_ch<br>                    |
| Transport document descr  | iption   |   |  |  |
| UN 1987 ALCOHOLS,<br>N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt; ; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol), 3, III, (D/E)</entity:1186022 field:_ch<br> | UN 1987 ALCOHOLS,<br>N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt; ; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol), 3, III</entity:1186022 field:_ch<br> | UN 1987 Alcohols, n.o.s.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt; ; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol), 3, III</entity:1186022 field:_ch<br> | UN 1987 ALCOHOLS,<br>N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt; ; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol), 3, III</entity:1186022 field:_ch<br> | UN 1987 ALCOHOLS,<br>N.O.S.<br>( <entity:1186022 field:_ch<br>EM_NAME&gt; ; propan-2-ol;<br/>isopropyl alcohol;<br/>isopropanol), 3, III</entity:1186022 field:_ch<br> |
| 14.3. Transport hazard  |  |   |  |  |
| 3   | 3  | 3   | 3  | 3  |
| 14.4. Packing group   |  |   |  |  |
| III   | III  | III   | III  | III  |

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| ADR                                    | IMDG   | IATA                               | ADN                                | RID                                |
|--|--|------------------------------------|------------------------------------|------------------------------------|
| 14.5. Environmental h                  | azards   |                                    |                                    |                                    |
| Dangerous for the environment : No     | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available |  |                                    |                                    |                                    |

#### 14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special : TP1, TP29

provisions (ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Operation

(ADR)

Hazard identification number (Kemler No.) : 30

Orange plates

30 1987

: S2

Tunnel restriction code (ADR) : D/E EAC code : •3YE

- Transport by sea

Special provisions (IMDG) : 223, 274

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : A

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355 PCA max net quantity (IATA) : 60L : 366 CAO packing instructions (IATA) CAO max net quantity (IATA) : 220L Special provisions (IATA) : A3, A180 ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 274, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1

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Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : F1
Special provisions (RID) : 274, 601
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions : T4

(RID)

Portable tank and bulk container special

provisions (RID)

: TP1, TP29

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| 3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F  | HUMAN USE INSECT REPELLENT BIOVECTROL HERBAL SPRAY; propan-2-ol; isopropyl alcohol; isopropanol  |
|--|--|
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10   | HUMAN USE INSECT REPELLENT BIOVECTROL HERBAL SPRAY; Eucalyptus citriodora oil, hydrated, cyclized (Citriodiol®); propan-2-ol; isopropyl alcohol; isopropanol |
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | HUMAN USE INSECT REPELLENT BIOVECTROL HERBAL SPRAY; propan-2-ol; isopropyl alcohol; isopropanol  |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

propan-2-ol; isopropyl alcohol; isopropanol

### **SECTION 16: Other information**

#### Indication of changes:

| Section | Changed item        | Change   | Comments |
|---------|---------------------|----------|----------|
| 7.2     | Storage temperature | Modified |          |

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Data sources

: (non-exhaustive list). Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Local regulations.

#### Full text of H- and EUH-statements:

| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2                          |  |
|--------------|--|--|
| Flam. Liq. 2 | Flammable liquids, Category 2  |  |
| Flam. Liq. 3 | Flammable liquids, Category 3  |  |
| STOT SE 3    | Specific target organ toxicity — Single exposure, Category 3, Narcosis |  |
| H225         | Highly flammable liquid and vapour.                                    |  |
| H226         | Flammable liquid and vapour.   |  |
| H319         | Causes serious eye irritation.   |  |
| H336         | May cause drowsiness or dizziness.                                     |  |
| EUH208       | Contains . May produce an allergic reaction.                           |  |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Flam. Liq. 3 | H226 | On basis of test data |
|--------------|------|-----------------------|
| Eve Irrit, 2 | H319 | Calculation method    |

#### MONTPLET SDS EU (REACH Annex II)

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.

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