Section 1 Identification of the mixture and of the company

1.1 Product identifier

Product name Cryptex®

Synonyms

1.2 Relevant identified uses of the mixture and uses advised against

Use of the product Biological insecticide

Uses advised against

1.3 Details of the supplier of the Safety Data Sheet

Supplier Andermatt Biocontrol AG

Address Stahlermatten 6

6146 Grossdietwil

Phone (technical) +41 (0)62 917 5125

E-mail contact@andermattbiocontrol.com

1.4 Emergency telephone number

Phone (medical) +41 (0)44 251 5151 (Swiss Toxicology Centre)

Section 2 Hazards identification

2.1 Classification of the mixture

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

2.2 Label elements

Store locked up.
Keep out of the reach of children.
Do not breathe vapours.
Avoid contact with skin.
To avoid risks to human health and the environment, comply with the instructions for use.
Contains Cryptophlebia leucotreta Granulovirus. May produce an allergic reaction.

2.3 Other hazards

This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT).
This mixture does not contain any substances which are very persistent and very bioaccumulative (vPvB).

Section 3 Composition/information on ingredients

3.1 Substances

This product is a mixture

3.2 Mixtures

Cryptophlebia leucotreta granulovirus
No hazardous component according to Regulation (EC) No 1272/2008 [CLP]

Section 4 First aid measures

4.1 Description of first aid measures

General notes If medical advice is needed, have product container or label at hand.
Change any contaminated or wetted clothing at once.
If poisoning occurs contact a doctor or Swiss Toxicology Centre.
Following inhalation Only possible by exposure to HOT product. Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure. Symptomatic treatment is advised.
Following skin contact Remove contaminated clothing. Seek medical advice if irritation develops. Launder clothes before reuse. After contact with skin,
Following eye contact: wash immediately with plenty of water. Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Following ingestion: No typical symptoms and effects known. Symptomatic treatment needed.

Advice to physician:

4.2 Most important symptoms and effects, both acute and delayed
No typical symptoms and effects known.

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

Section 5  Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media | Water mist, alcohol resistant foam, carbon dioxide, dry powder |
| Unsuitable extinguishing media | Water-jet, foam |

5.2 Special hazards arising from the mixture

Vapours cause coughing. At elevated temperatures (> 200°C), there is a risk of exothermic polymerization. At temperatures > 280°C, acrolein may be formed.

5.3 Advice for firefighters

Avoid contact with oxidizing agents. Cool closed containers with water.

Section 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use protective clothing. Do not inhale.

6.2 Environmental precautions

Prevent entry into drains, waters, sewages etc. of the product; contact immediately the municipal technical management if the product enters such bodies.

6.3 Methods and material for containment and cleaning up

Use adsorbent material to collect spillage (e.g. sawdust, peat, chemical binder). Place contaminated adsorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated adsorbent. Also place used cleaning materials into closable receptacles.

6.4 Reference to other sections

See personal protective equipment under Section 8 of SDS.

Section 7  Handling and storage

7.1 Precautions for safe handling

The usual precautions for handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Store in original package only. Stored in the refrigerator (< 5°C) for two years. Stored at -18°C for years without any loss of activity.

7.3 Specific end use(s)

Biological Insecticide

Section 8  Exposure controls/personal protection
8.1 Control parameters

The usual precautionary measures for handling chemicals should be observed.

8.2 Exposure controls

<table>
<thead>
<tr>
<th>Protection Type</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/face protection</td>
<td>No specific recommendations</td>
</tr>
<tr>
<td>Skin protection</td>
<td>Use protective clothing</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>No specific recommendations</td>
</tr>
<tr>
<td>Thermal hazards</td>
<td>No specific recommendations</td>
</tr>
<tr>
<td>Other information</td>
<td>None</td>
</tr>
</tbody>
</table>

### Section 9 Physical and chemical properties

#### 9.1 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>Liquid (20°C)</td>
</tr>
<tr>
<td>Colour</td>
<td>Grey-brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>6-7</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined (is not freezing at -18°C)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>103-290°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determinable up to 110°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.16 (g/ml)</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient: n-cotanol/water</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt;200°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>39 mm²/s (20°C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Non explosive</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Non oxidizing</td>
</tr>
</tbody>
</table>

#### 9.2 Other information

None

### Section 10 Stability and Reactivity

#### 10.1 Reactivity

Not reactive

#### 10.2 Chemical stability

No decomposition if stored and handled properly

#### 10.3 Possibility of hazardous reactions

Not relevant

#### 10.4 Conditions to avoid

Temperature >200°C (polymerization, decomposition)

#### 10.5 Incompatible materials

Avoid contact with oxidizing agents
10.6 Hazardous decomposition products

Acrolein (>280°C)

Section 11  Toxicological information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity</strong></td>
<td>Rat, oral, 5 × 10⁹ granules /kg BW (AcNPV), no adverse effects</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>Rabbit, contact, 0.5 mL/animal (2.2 × 10¹³ granula of CpGV/L) for 4 h, no adverse effect</td>
</tr>
<tr>
<td><strong>Serious eye damage/irritation</strong></td>
<td>Rabbit, contact, 0.1 mL/eye (2.2 × 10¹³ granula of CpGV/L) for 24 h, non-irritating</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td>Guinea pig, inhalation, 35 mg CpGV (7 × 10⁸ granules) per m³ for 15 min, no adverse effects</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>Not classified</td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td>Not classified</td>
</tr>
<tr>
<td><strong>STOT-single exposure</strong></td>
<td>Not existing</td>
</tr>
<tr>
<td><strong>STOT-repeated exposure</strong></td>
<td>Not existing</td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td>Not relevant</td>
</tr>
</tbody>
</table>

Section 12  Ecological information

12.1 Toxicity

**Acute (short-term) toxicity**

- **Fish**
  - *Oncorhynchus mykiss*, 96 hour LC₅₀ > 100 mg/L = 2.0 × 10⁹ CpGV/L
- **Crustacea**
  - *Daphnia magna*, 48 hour LC₅₀ > 100 mg/L = 2.0 × 10⁹ CpGV/L
- **Algae/aquatic plants**
  - *Scenedesmus subspicatus*, 72 hour EC₅₀ > 100 mg/L = 2.0 × 10⁹ CpGV/L
- **Other organisms**
  - *Lemna gibba*, 7 day EC₅₀ > 100 mg/L = 3.1 × 10⁹ CpGV/L

**Chronic (long-term) toxicity**

- **Fish**
  - Not determined
- **Crustacea**
  - Not determined
- **Algae/aquatic plants**
  - Not determined
- **Other organisms**
  - Not determined

12.2 Persistence and degradability

- **Abiotic Degradation**
  - pH
- **Physical- and photo-chemical elimination**
  - UV light
- **Biodegradation**
  - Soil microflora

12.3 Bioaccumulative potential

- **Octanol/water partition coefficient (Kow)**
  - Not determined
- **Bioconcentration factor (BCF)**
  - Not determined

12.4 Mobility in soil

- **Known or predicted distribution to environmental compartments**
  - CIGV persists in the soil for a fairly long period in the immobilised state and does not accumulate.
- **Surface tension**
  - Not determined
- **Adsorption/Desorption**
  - Not determined

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
### 12.6 Other adverse effects

None

### 12.7 Additional information

None

## Section 13 Disposal considerations

### 13.1 Waste treatment methods

| Product/Packaging disposal | Use pressure rinsing devices or triple rinsing with water to reduce any product residues in the container to insignificant levels. Don’t dispose product or containers on ponds, rivers or ditches. Don’t re-use containers for other purposes. Waste disposal and recycling contractors will take cleaned containers. Waste resulting from the use of the product must be disposed on site or on an approved waste disposal facility. Empty the sprayer out in the field being treated by spraying out on to a relatively pest free part of the field left unsprayed or under-dosed for the crop. |
| Waste codes/waste designations according to LoW | Not applicable |
| Waste treatment-relevant information | None |
| Sewage disposal-relevant information | Waste should not be disposed of by release to sewers |
| Other disposal recommendations | None |

## Section 14 Transport Information

| Inland transport | Not restricted |
| Sea transport | Not restricted |
| Air transport | Not restricted |

## Section 15 Regulatory information

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

| Authorisations | Not relevant |
| Restrictions on use | Not relevant |

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## Section 16 Other information

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user’s own responsibility to make sure that the information is appropriate and complete for his special use of this product.

**Indication of changes**

Adapted to the regulation (EC) No. 1272/2008 [CLP]

**Date of printing**

11.02.2020