

|   |   |
|---|---|
| <b>Section 1 Identification of the mixture and of the Company</b> |   |
| 1.1   | Product identifier  |
|   | Product Name Loopex®<br>Synonyms N/A  |
| 1.2   | Relevant identified uses of the mixture and uses advised against  |
|   | Use of the product Biological Insecticide<br>Uses advised against N/A   |
| 1.3   | Details of the supplier of the Safety Data Sheet  |
|   | Supplier Andermatt Canada Inc.<br>Address 1350 Regent Street<br>Fredericton, New Brunswick Canada E3C 2G6<br>Phone +1 (506) 444-5690<br>E-mail <a href="mailto:info@andermattcanada.ca">info@andermattcanada.ca</a>   |
| 1.4   | Emergency Telephone Number  |
|   | Phone (medical) 1-888-226-8832  |
| <b>Section 2 Hazards Identification</b>                           |   |
| 2.1   | Classification of the mixture   |
|   | Not Classified; No hazardous components   |
| 2.2   | Label elements  |
|   | IN THE CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Removing existing contact lenses if possible. Continue rinsing.<br>Keep out of the reach of children.<br>Store locked up.<br>To avoid risks to human health and the environment, comply with the instructions for use.<br>Contains <i>Autographa californica</i> nucleopolyhedrovirus. May produce an allergic reaction.<br>Potential Sensitizer<br>CAUTION – Eye irritant |
| 2.3   | Other hazards   |
|   | This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT).<br>This mixture does not contain any substance which are very persistent, and bioaccumulative (vPvB).  |
| <b>Section 3 Composition/Information on Ingredients</b>           |   |
| 3.1   | Substances  |
|   | This product is a mixture   |
| 3.2   | Mixtures  |
|   | <i>Autographa californica</i> nucleopolyhedrovirus<br>No hazardous component.   |
| <b>Section 4 First Aid Measures</b>                               |   |
| 4.1   | Description of first aid measures   |

|   |  |
|---|--|
| General Notes   | Change any contaminated or wetted clothing at once. If poisoning occurs contact a doctor.  |
| 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. Treat symptomatically is advised. |
| Following skin contact  | Remove contaminated clothing. Seek medical advice if irritation develops. Wash clothes before reuse. After contact with skin, wash immediately with plenty of water.   |
| Following eye contact   | Rinse thoroughly with plenty of water for several minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.  |
| Following ingestion   | No typical symptoms and affects known  |
| Advice to physician   | Treat symptomatically  |
| 4.2 Most important symptoms and effect, 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 | Vapors cause coughing<br>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 absorbent material to collect spillage (eg. Sawdust, peat, chemical Binder). Place contaminated absorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated absorbent. 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. Store in refrigerator (<5°C) for one year. Store at -18°C for one year without any loss of activity.

**7.3 Specific end use(s)**

Biological Insecticide.

**Section 8 Exposure controls/personal protection**

**8.1 Control parameter**

The usual precautionary measures for handling chemicals should be observed.

**8.2 Exposure controls**

Eye/Face Protection

Use goggles

Skin Protection

Use Protective Clothing

Respirator Protection

A NIOSH approved mist filtering mask or respirator with any N-95, P-95 or R-95 filter.

Thermal Hazards

No specific recommendations

Other information

None

**Section 9 Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

Physical State

Liquid (20°C)

Color

Grey-brown

Odor

Odorless

Odor Threshold

Not determined

pH

6-7

Melting point/freezing point

Not determine (not freezing at -18°C)

Initial boiling point and boiling range

103-290°C

Flash Point

Not determined up to 101°C

Evaporation Rate

Not determined

Flammability

Not flammable

Upper/Lower flammability or explosive limits

Not flammable

Vapor Pressure

Not determined

Vapor Density

Not relevant

Relative Density

1.16 g/mL

Solubility(ies)

Soluble in water

Partition coefficient: n-cotanol/water

Not determined

Auto-ignition temperature

Not determined

Decomposition temperature

>200°C

Viscosity

12.64 cSt at 20°C

Explosive Properties

Non explosive

Oxidising properties

Not oxidizing

## 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

None 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 of toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | Rat, oral, 5x10 <sup>9</sup> granules/kg BW (AcNPV), no adverse effects  |
| Skin corrosion/irritation         | Rabbit, contact, 0.5mL/animal (2.2x10 <sup>13</sup> granula of CpGV/L) for 4 hours, no adverse effect              |
| Serious eye damage/irritation     | Rabbit, contact, 0.1mL/eye (2.2x10 <sup>13</sup> granula of CpGV/L) for 24 hours, non-irritating                   |
| Respiratory or skin sensitization | Guinea pig, inhalation, 35 mg CpGV (7x10 <sup>8</sup> granules) per m <sup>3</sup> for 15 mins, no adverse effects |
| Germ cell mutagenicity            | Not determined   |
| Carcinogenicity                   | Not classified   |
| Reproductive toxicity             | Not classified   |
| STOT-single exposure              | Not existing   |
| STOT-repeated exposure            | Not existing   |
| Aspiration hazard                 | Not relevant   |

## Section 12 Ecological Information

### 12.1 Toxicity

#### Acute (short-term) toxicity

|                      |   |
|----------------------|---|
| Fish                 | <i>Oncorhynchus mykiss</i> , 96 hours LC <sub>50</sub> > 100mg/L = 2.0x10 <sup>9</sup> CpGV/L     |
| Crustacea            | <i>Daphnia magna</i> , 48 hours LC <sub>50</sub> > 100mg/L = 2.0x10 <sup>9</sup> CpGV/L           |
| Algae/aquatic plants | <i>Scenedesmus subspicatus</i> , 72 hours EC <sub>50</sub> > 100mg/L = 2.0x10 <sup>9</sup> CpGV/L |
| Other organisms      | <i>Lemna gibba</i> , 7 day EC <sub>50</sub> > 100mg/L = 3.1x10 <sup>9</sup> CpGV/L                |

#### Chronic (long-term) toxicity

|                      |                   |
|----------------------|-------------------|
| Fish                 | No data available |
| Crustacea            | No data available |
| Algae/aquatic plants | No data available |
| Other organisms      | No data available |

### 12.2 Persistence and degradability

|                   |   |  |
|-------------------|---|--|
|                   | Abiotic Degradation   | pH   |
|                   | Physical and photo-chemical elimination                       | UV light   |
|                   | Biodegradation  | Soil microflora  |
| <b>12.3</b>       | <b>Bioaccumulative potential</b>                              |  |
|                   | Octanol/water partition coefficient (Kow)                     | Not determined   |
|                   | Bioconcentration factor (BCF)                                 | Not determined   |
| <b>12.4</b>       | <b>Mobility in Soil</b>                                       |  |
|                   | Known or predicted distribution to environmental compartments | AcMNPV persists in the soil for a fairly long period in the immobilized state and does not accumulate.   |
|                   | Surface tension   | Not determined   |
|                   | Absorption/desorption   | Not determined   |
| <b>12.5</b>       | <b>Results of PBT and vPvB assessment</b>                     |  |
|                   |   | This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  |
| <b>12.6</b>       | <b>Other adverse effects</b>                                  |  |
|                   |   | None   |
| <b>12.7</b>       | <b>Additional information</b>                                 |  |
|                   |   | None   |
| <b>Section 13</b> | <b>Disposal considerations</b>                                |  |
| <b>13.1</b>       | <b>Waste treatment methods</b>                                |  |
|                   | Product/Packaging disposal                                    | Triple-or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for use. Dispose of the container in accordance with provincial regulations. For information on disposal of unused, unwanted product, contact the supplier or the provincial regulatory agency. Contact the supplier or the provincial regulatory agency in cause of a spill, and for clean-up of spills. |
|                   | 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   |
| <b>Section 14</b> | <b>Transport Information</b>                                  |  |
|                   | <b>Inland Transportation</b>                                  | Not restricted   |
|                   | <b>Sea Transportation</b>                                     | Not restricted   |

**Air Transportation**

Not restricted

**Section 15 Regulatory Information**

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

Authorizations

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 their special use of this product.

**Indication of Changes**

Date of Review

March 29, 2021

Composed by

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Andermatt Canada Inc.