

MADEX TOP

According to regulation (EC) No. 1907/2006 and its amendment regulation (EC) No. 2015/830

Last review 24.05.2017

Section 1 Identification of the mixture and of the company

1.1 Product identifier

Product name Madex Top ®

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

Manufacturer/Supplier Andermatt Biocontrol AG

Address Stahlermatten 6

6146 Grossdietwil

Phone (technical) +41 (0)62 917 5125 E-mail +41 (0)62 917 5125

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.

If medical advice is needed, have product container or label at

hand.

To avoid risks to human health and the environment, comply with

the instructions for use.

Contains Cydia pomonella 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

Cydia pomonella granulovirus

No hazardous component according to Regulation (EC) No

1272/2008 [CLP]

Section 4 First aid measures

4.1 Description of first aid measures

Following skin contact

General notes Change any contaminated or wetted clothing at once.

If poisoning occurs contact a doctor or Swiss Toxicology Centre. Only possible by exposure to HOT product. Move to fresh air,

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. Remove contaminated clothing. Seek medical advice if irritation

develops. Launder clothes before reuse. After contact with skin,

wash immediately with plenty of water.



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Rinse thoroughly with plenty of water. Eyelids should be hold Following eye contact

away from the eyeball to ensure thorough rinsing. Seek medical

advice if irritation develops.

Following ingestion No typical symptoms and affects known

Advice to physician Symptomatic treatment

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

media

Extinguishing media

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

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 Page 2 of 5



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be observed

8.2 Exposure controls

Eye/face protection No specific recommendations

Skin protection Use protective clothing

Respiratory protection No specific recommendations Thermal hazards No specific recommendations

Other information

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liquid (20°C) Colour Grey-brown Odour Characteristic Odour threshold Not determined

6-7

Melting point/freezing point Not determined (is not freezing at -18°C) 103 - 290°C

Initial boiling point and

boiling range

Flash point Not determinable up to 101°C

Evaporation rate Not determined Flammability Not flammable Upper/lower flammability or Not flammable

explosive limits

Not determined Vapour pressure Vapour density Not relevant Relative density 1.16 (g/ml) Solubility(ies) Soluble in water Partition coefficient: n-Not determined

cotanol/water

Not determined Auto-ignition temperature

Decomposition temperature >200°C

1200 mPa x s Viscosity Explosive properties Non explosive Non oxidizing Oxidising properties

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)



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Section 11 Toxicological information

11.1 Information on toxicological effects

> Acute toxicity Rat, oral, 5×10^9 granules /kg BW (AcNPV), no adverse effects Skin corrosion/irritation Rabbit, contact, 0.5 mL/animal (2.2 \times 10¹³ granula of CpGV/L) for

> > 4 h, no adverse effect

Rabbit, contact, 0.1 mL/eye (2.2 x 10¹³ granula of CpGV/L) for Serious eye

damage/irritation 24 h, non-irritating

Guinea pig, inhalation, 35 mg CpGV (7 x 108 granules) per m3 for Respiratory or skin

sensitization 15 min, no adverse effects

Germ cell mutagenicity Not determined Not classified Carcinogenicity 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 Oncorhynchus mykiss, 96 hour $LC_{50} > 100 \text{ mg/L} = 2.0 \times 10^9$

CpGV/L

Crustacea Daphnia magna, 48 hour $LC_{50} > 100 \text{ mg/L} = 2.0 \times 10^9 \text{ CpGV/L}$

Algae/aquatic plants Scenedesmus subspicatus, 72 hour EC₅₀ > 100 mg/L = 2.0×10^9

CpGV/L

Other organisms Lemna gibba, 7 day $EC_{50} > 100 \text{ mg/L} = 3.1 \text{ x } 10^9 \text{ CpGV/L}$

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 рΗ Physical- and photo-**UV** light

chemical elimination

Biodegradation Soil microflora

12.3 Bioaccumulative potential

Octanol/water partition coefficient (Kow)

Not determined

Bioconcentration factor

Not determined

(BCF)

12.4 Mobility in soil

CpGV persists in the soil for a fairly long period in the Known or predicted

immobilised state and does not accumulate. distribution to environmental

compartments

Not determined Surface tension 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



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None

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

LOVV

Waste treatment-relevant

information

None

None

Sewage disposal-relevant

information

Waste should not be disposed of by release to sewers

Other disposal recommendations

Section 14 Transport Information

Inland transportNot restrictedSea transportNot restrictedAir transportNot 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.

i Indication of changes

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

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24-May-17 Philip Kessler