

Madex Twin

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Distributed By: Madumbi Sustainable Agriculture
Postnet Suite 148, Private Bag X9118
Pietermaritzburg 3200
Emergency Telephone no.:27 (0)33 342 3984

Manufactured and Registered by: Andermatt Biocontrol AG
Stahlermatten 6
6146 Grossdietwil
Switzerland

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product description: Suspension concentrate of *Cydia pomonella* granulovirus for the reduction of Oriental Fruit Moth (*Grapholita molesta*) and Coding Moth (*Cydia pomonella*) larvae on Apples, Pears and Stone Fruit. No hazardous components

Dangerous ingredients: None

3. HAZARDS IDENTIFICATION

Important hazards: None

4. FIRST AID MEASURES

Symptoms and effects: No typical symptoms and effects known

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: This is 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

Skin: Remove contaminated clothing. Seek medical advice if irritation develops. Launder clothes before reuse. After contact with skin, wash immediately with plenty of water

Eye: Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Ingestion: If ingested seek medical advice immediately and show this information sheet if possible,

Advice to physician: Symptomatic treatment is advised.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water mist, alcohol resistant foam, dry powder, carbon dioxide.

Unsuitable media: Water-jet, foam.

Special exposure hazards Vapours cause coughing.

Hazardous decomposition/combustion products: At elevated temperatures there is a risk of exothermic polymerization (> 200°C). At temperatures > 280 °C, Acrolein may be formed.

Protective equipment: No specific recommendations

Other information: Avoid contact with oxidizing agents. Cool closed containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: The usual precautions for handling chemicals should be observed

Environmental precautions: No specific recommendations

Methods for cleaning up: Collect as much as possible; in a clean container for (preferable) reuse or disposal.
Other information for personal protection see Section 8.

7. HANDLING AND STORAGE

Handling: The usual precautions for handling-chemicals should be observed.
Fire and explosion: No specific recommendations. Avoid contact with oxidizing agents.
Storage requirements: No specific recommendations.
Other information: To maintain quality: Store below 5°C. Avoid elevated temperatures.
S1/2 Keep locked up and out of the reach of children.
S13 Keep away from food, drink and animal foodstuffs.
P101: If medical advice is needed have product container or label at hand
P405+P102: Store locked up and keep out of the reach of children

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering controls: The usual precautionary measures for handling chemicals should be observed.
Exposure limits: No exposure limit has been established
Personal protection:
Respiratory: No specific recommendations.
Hand: No specific recommendations.
Eye: No specific recommendations
Skin and body: No specific recommendations.
Other information: The usual precautions for handling chemicals should be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid (20 °C)
Colour: Grey-brown
Odour: Odourless
Boiling point/range: 103-290 °C
Flash point: >100 °C
Flammability: Not determined
Explosive properties: None known
Explosion limits: No data available
Oxidizing properties: None known
Vapour pressure: < 0.1 Pa (20°C)
Density: Approx. 1100 kg/m³ (20°C)
Bulk density: Not relevant
Solubility in water: Soluble
Solubility in other solvents: Not determined
pH value: 6-7
Partition coefficient:
n-Octanol/water: Not determined
Relative vapour density (air=1): Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not reactive
Stability: No decomposition if stored and handled properly.
Conditions to avoid: Temperature > 200 °C (polymerization, Decomposes).
Materials to avoid: Avoid contact with oxidizing agents.
Hazardous decomposition products: Acrolein (> 280 °C).

11. TOXICOLOGICAL INFORMATION

Name: Madex Twin
Acute toxicity: Oral LD₅₀ >>5 x 10⁹ PIB/kg b.w. (rat) (Lit.)
Skin corrosion/irritation: based on available data, not classified.

Serious eye damage/irritation:	based on available data, non-irritating.
Respiratory or skin sensitization:	based on available data, non-sensitizing.
Germ cell mutagenicity	
Carcinogenicity:	based on available data, not classified.
Reproductive toxicity:	based on available data, not classified.
STOT-single exposure:	based on available data, not existing.
STOT-repeated exposure:	based on available data, not existing.
Aspiration hazard:	not relevant.

12. ECOLOGICAL INFORMATION

Name:	Madex Twin
Ecotoxicity	
Fish:	96h LC50: > 100 mg product/l
Algae:	48h EC50: >100 mg product/l
Bacteria:	72h IC50: >100 mg product/l
Fate	
Degradation:	Biotic Biodegradable
Bioaccumulative potential:	not persistent, not bio-accumulated.
Mobility in soil:	Potential absorptiveness in the top organic soil layers and very little capacity to leach to lower layers.

13. DISPOSAL CONSIDERATIONS

Product:	According to local regulations (most probably controlled incineration).
Contaminated packaging:	According to local regulations

14. TRANSPORT INFORMATION

There are no transport regulations or restrictions for this product.

15. REGULATORY INFORMATION

Labelling according to EC directives	
Annex-1 number:	See section 2
Symbols (s):	none
R(isk) phrase(s):	none
S(afety) phrase(s):	none

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.

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