

Safety Data Sheet

according to Directive 1272/2008/EC

V10

Version 2.0

Date: 13.07.2016

Printed: 31.01.2017

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1) IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

1.1	Product identifier	V10
1.2	Relevant identified uses of the mixture	Control of aggressive Pepino Mosaic Viruses (Chilean and European strains)
1.3	Company identification	Valto B.V. De Lier Leehove 81, 2678 MB, De Lier The Netherlands Telephone: ++31 (0)174 514 519 E-mail: Info@valto.nl
1.4	Emergency telephone	National Poisons Information Centre Tel: ++31 (0)30 274 88 88 (Only for professional aid workers)

2) HAZARDS IDENTIFICATION

2.1	Classification of the mixture	Classification according to EU-directive 1272/2008 No classification
2.2	Label elements	Hazardous components that should be on the label: - Mild strains VX1 and VC1 of the Pepino Mosaic Virus Symbol: - None H-sentences: None P-sentences: P280c: Wear protective gloves and protective clothing P284: Wear respiratory protection
2.3	Other hazards	Microorganisms may have the potential to provoke sensitising reactions

3) COMPOSITION / DATA ON COMPONENTS

Component	CAS-n°	EC-n°	Concentration	Classification
Mild Pepino Mosaic Virus Isolate VC1	-	-	5-25 mg/L	P280c-P284
Mild Pepino Mosaic Virus Isolate VX1	-	-	5-25 mg/L	P280c-P284

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4) FIRST AID MEASURES

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|-----|---|---|
| 4.1 | Description of first aid measures | AFTER INHALATION: In case of respiratory problems, provide victim with fresh air and place in resting position that facilitates breathing.
In case of respiratory symptoms: Contact an ANTI-POISON CENTRE or a doctor.
AFTER SKIN CONTACT: wash with abundant water and soap.
In case of skin irritation or rash: Contact a doctor |
| 4.2 | Most important symptoms and effects, both acute and delayed | No data available. |
| 4.3 | Indication of any immediate medical attention and special treatment needed. | Not applicable. |

5) FIREFIGHTING MEASURES

- | | | |
|------|--|----------------------------|
| 5.1) | Extinguishing media | |
| | Suitable extinguishing media | Dry powder, foam or water. |
| | Extinguishing media <u>not</u> suitable for safety reasons | Not applicable |
| 5.2) | Exposure hazards during fire-fighting | Unknown. |
| 5.3) | Advice for fire-fighters | Product is not flammable. |

6) ACCIDENTAL RELEASE MEASURES

- | | | |
|------|---------------------------|--|
| 6.1) | Personal precautions | The usual precautions for handling chemicals should be taken into account. |
| 6.2) | Environmental precautions | No specific recommendations. |
| 6.3) | Methods for cleaning up | Collect spilled product and place in a suitable container or vessel. |

7) HANDLING AND STORAGE

- | | | |
|------|-------------------------------|---|
| 7.1) | Precautions for safe handling | Do not eat, drink or smoke during use.
Do not inhale spray mist.
Prevent contact with skin.
Wear protective gloves.

Do not eat, drink and smoke in work areas.
Wash hands after use. |
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7) HANDLING AND STORAGE

	Remove contaminated clothing and protective equipment before entering eating areas.
7.2) Conditions for safe storage, including any incompatibilities	Apply product within 3 days after receipt. Store in cold conditions (4-10°C). Keep out of reach of children. Prevent contaminating water with product or packaging.
7.3) Specific end use	Control of aggressive Pepino Mosaic Viruses (Chilean and European strains)

8) EXPOSURE CONTROL / PERSONAL PROTECTION

8.1) Control parameters	Exposure limits: not determined for Pepino Mosaic Virus.
8.2) Exposure controls	Do not inhale spray mist Prevent contact with skin Wear suitable gloves

9) PHYSICAL AND CHEMICAL PROPERTIES

9.1) Information on basic physical and chemical properties	
a) Appearance	Olive green coloured turbid liquid (suspension)
b) Odour	Grass-like odour
c) Odour threshold	No data available
d) pH	pH mixture: 7.4 – 7.6 (20°C) pH 1% aqueous solution: 7.7 – 7.8 (20°C)
e) Melting/freezing point	± 0°C
f) Initial boiling point and boiling range	± 100°C
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability	Not flammable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	1.02 (Cipac MT 3.2.1, 20°C & 40°C) to 1.14 (Cipac MT 3.2.2)

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9) PHYSICAL AND CHEMICAL PROPERTIES

n) Solubility	Soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	Kinematic viscosity: 1.104 cSt at 20°C 0.734 cSt at 40°C
s) Explosive properties	Not explosive
t) Oxidising properties	Not oxidising

9.2) Other information Not applicable

10) STABILITY AND REACTIVITY

10.1 Reactivity	Not reactive
10.2 Chemical stability	Apply product within 3 days after receipt. Store in cold conditions (4-10°C)
10.3 Possibility of hazardous reactions	No hazardous reactions known.
10.4 Conditions to avoid	Temperatures <4°C and >10 °C
10.5 Incompatible materials	Avoid contact with strong oxidisers, acids and bases.
10.6 Hazardous decomposition products	Sulphur oxide

11) TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) Acute toxicity	Oral: LD50 cut-off(rat): 5000 mg/kg bw Dermal: LD50 (rat): >2000 mg/kg bw Inhalation: LC50 (rat): >5.04 mg/L
b) Skin corrosion/irritation	Not corrosive, not irritating
c) Severe eye damage/ irritation	Not corrosive, not irritating
d) Respiratory and skin sensitisation	Microorganisms may have the potential to provoke sensitising reactions
e) Germ cell mutagenicity	No data available
f) Carcinogenicity	Not mutagenic

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11) TOXICOLOGICAL INFORMATION

g) Reproductive toxicity	No data available
h) STOT-single exposure	No data available
i) STOT-repeated exposure	No data available
j) Aspiration hazard	No data available

12) ENVIRONMENTAL INFORMATION

12.1 Toxicity	Poses no specific risk to the environment
12.2 Persistence and degradability	Biodegradable
12.3 Bioaccumulative potential	Not applicable for viruses
12.4 Mobility in soil	Not applicable for viruses
12.5 Results of PBT and vPvB assessment	Not applicable for viruses
12.6 Other adverse effects	No adverse effects known

13) INSTRUCTIONS FOR DISPOSAL

13.1 Waste treatment methods	Dispose waste to a suitable incinerator according to national of local legislation.
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14) TRANSPORT INFORMATION

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

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15) REGULATORY INFORMATION

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

Pepino Mosaic Virus is an EU quarantine organism for tomato seed (Commission Decision 2004/200/EC of 27 February 2004)

A temporary exemption provided for in Article 38 of the Dutch Plant protection products and biocidal products Act and Article 53 of Regulation (EC) 1107/2009 is granted for the use of V10 to protect greenhouse tomato cultivation against damage by Pepino Mosaic Virus in the Netherlands since 2012.

15.2 Chemical safety assessment

Not applicable

16) OTHER INFORMATION

H-sentences:

None

P-sentences:

P280c: Wear protective gloves and protective clothing

P284: Wear respiratory protection

Microorganisms may have the potential to provoke sensitising reactions