

## V10

Version number: 2.0  
Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name **V10**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Control of aggressive Pepino Mosaic Viruses (Chilean and European strains)  
Professional use

#### 1.3 Details of the supplier of the safety data sheet

Valto B.V.  
Leehove 81  
2678 MB De Lier  
Netherlands

Telephone: +31 (0)174 514 519  
e-mail: [info@valto.nl](mailto:info@valto.nl)  
Website: <http://www.valto.nl>

e-mail (competent person) [info@valto.nl](mailto:info@valto.nl)

#### 1.4 Emergency telephone number

Emergency information service +31 (0)174 514 519  
This number is only available during the following office hours: Mon-Fri 08:00 - 17:00

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification acc. to GHS  
This mixture does not meet the criteria for classification.

Code	Supplemental hazard information
EUH401	to avoid risks to human health and the environment, comply with the instructions for use

#### 2.2 Label elements

Labelling

- signal word Not required.

- pictograms Not required.

- precautionary statements  
P280 Wear protective gloves/protective clothing.

- supplemental hazard information  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

#### 2.3 Other hazards

Microorganisms may have the potential to provoke sensitising reactions.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## V10

Version number: 2.0  
Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

This product does not meet the criteria for classification in any hazard class according to GHS.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

##### Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

##### Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

#### 4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO<sub>2</sub>);  
Co-ordinate firefighting measures to the fire surroundings.

##### Unsuitable extinguishing media

Water jet.

#### 5.2 Special hazards arising from the substance or mixture

##### Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Sulphur dioxide (SO<sub>2</sub>).

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

##### Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

## V10

Version number: 2.0  
Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- specific designs for storage rooms or vessels

- storage temperature

Minimum storage temperature: 4 °C  
Maximum storage temperature: 10 °C

- maximum storage period

3 d

## V10

Version number: 2.0  
 Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

- packaging compatibilities  
 Keep only in original container.

### 7.3 Specific end use(s)

Control of aggressive Pepino Mosaic Viruses (Chilean strains).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

No information available.

#### Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Skin protection



Chemical protective clothing.

- hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eyewash stations and safety showers at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid (suspension)
Colour	olive green
Odour	grass-like odour
Melting point/freezing point	0 °C

## V10

Version number: 2.0  
 Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

Boiling point or initial boiling point and boiling range	100 °C
Evaporation rate	not determined
Flammability	non-combustible
Lower and upper explosion limit	LEL: UEL: not relevant
Flash point	not applicable
Auto-ignition temperature	not relevant
Decomposition temperature	no data available
pH (value)	7.4 – 7.6 (20 °C) 7.7 – 7.8 (in aqueous solution: 10 mg/cm <sup>3</sup> , 20 °C)
Kinematic viscosity	1.104 cSt at 20 °C 0.734 cSt at 40 °C

### Solubility(ies)

Water solubility	miscible in any proportion
------------------	----------------------------

Partition coefficient n-octanol/water (log value)	this information is not available
---	-----------------------------------

Vapour pressure	not determined
-----------------	----------------

Density	not determined
---------	----------------

Relative density	1.02 – 1.14 (water = 1)
------------------	-------------------------

Particle characteristics	not relevant (liquid)
--------------------------	-----------------------

### 9.2 Other information

There is no additional information.

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
--	---

#### Other safety characteristics

Miscibility	Completely miscible with water.
-------------	---------------------------------

## V10

Version number: 2.0  
Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Keep away from heat, cold.

#### 10.5 Incompatible materials

Oxidisers.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification acc. to GHS

This mixture does not meet the criteria for classification.

##### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity			
Exposure route	Endpoint	Value	Species
oral	LD50	5,000 mg/kg	rat
dermal	LD50	>2,000 mg/kg	rat
inhalation: dust/mist	LC50	>5.04 mg/l/4h	rat

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

## V10

Version number: 2.0  
Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### Biodegradation

The relevant substances of the mixture are readily biodegradable.

### 12.2 Persistence and degradability

Readily biodegradable.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 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 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## V10

Version number: 2.0  
 Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

### SECTION 14: Transport information

- |   |   |
|---|---|
| <b>14.1 UN number or ID number</b>                                  | not subject to transport regulations                                  |
| <b>14.2 UN proper shipping name</b>                                 | not relevant  |
| <b>14.3 Transport hazard class(es)</b>                              | none  |
| <b>14.4 Packing group</b>   | not assigned  |
| <b>14.5 Environmental hazards</b>                                   | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                            | There is no additional information.                                   |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b> | No data available.  |

#### Information for each of the UN Model Regulations

##### **International Maritime Dangerous Goods Code (IMDG) - additional information**

Not subject to IMDG.

##### **International Civil Aviation Organization (ICAO-IATA/DGR) - additional information**

Not subject to ICAO-IATA.

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Relevant provisions of the European Union (EU)**

#### **Seveso Directive**

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

#### **Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

None of the ingredients are listed.

#### **Water Framework Directive (WFD)**

None of the ingredients are listed.

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
V10	Materials in suspension		a)	
V10	Substances which have an unfavourable influence on the oxygen balance (and can be measured using parameters such as BOD, COD, etc.)		a)	

#### Legend

A) Indicative list of the main pollutants



## V10

Version number: 2.0  
 Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

**Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013**

None of the ingredients are listed.

**Regulation on persistent organic pollutants (POP)**

None of the ingredients are listed.

**Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market**

- national authorisation

United Kingdom: MAPP 19124

**15.2 Chemical Safety Assessment**

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

**SECTION 16: Other information**

**Indication of changes (revised safety data sheet)**

Section	Former entry (text/value)	Actual entry (text/value)
1.1	Registration number (REACH): not relevant (mixture)	
1.2	Relevant identified uses: Professional use Control of aggressive Pepino Mosaic Viruses (Chilean and European strains)	Relevant identified uses: Control of aggressive Pepino Mosaic Viruses (Chilean and European strains) Professional use
1.4	Emergency information service: +31 (0)174 514 519 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00	Emergency information service: +31 (0)174 514 519 This number is only available during the following office hours: Mon-Fri 08:00 - 17:00
1.4		Poison centre: change in the listing (table)
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification acc. to GHS: This mixture does not meet the criteria for classification.
3.2		Mixtures: change in the listing (table)
4.1	Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.	Following eye contact: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
4.1	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.	Following ingestion: Rinse mouth with water (only if the person is conscious). Call a doctor if you feel unwell.
5.1	Suitable extinguishing media: Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO <sub>2</sub> ); Foam	Suitable extinguishing media: Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO <sub>2</sub> ); Co-ordinate firefighting measures to the fire surroundings.
5.3	Special protective equipment for firefighters: Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.	Special protective equipment for firefighters: Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.
7.2	- flammability hazards: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.	

## V10

 Version number: 2.0  
 Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

Section	Former entry (text/value)	Actual entry (text/value)
7.2		- packaging compatibilities: Keep only in original container.
7.3	Specific end use(s): Control of aggressive Pepino Mosaic Viruses (Chilean and European strains).	Specific end use(s): Control of aggressive Pepino Mosaic Viruses (Chilean strains).
8.2	Breakthrough times of the glove material: >480 minutes (permeation: level 6).	Breakthrough time of the glove material: Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).
8.2	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eye-wash stations and safety showers at the workplace.
9.1	Appearance	
9.1	Other safety parameters	
9.1	Flammability (solid, gas): not relevant, (fluid)	Flammability: non-combustible
9.1	Explosive limits: not determined	Lower and upper explosion limit: LEL: UEL: not relevant
9.1	Flash point: not determined	Flash point: not applicable
9.1	Auto-ignition temperature: not determined	Auto-ignition temperature: not relevant
9.1		Decomposition temperature: no data available
9.1	Partition coefficient	
9.1	Viscosity	
9.1	Explosive properties: none	
9.1	Oxidising properties: none	
9.1		Particle characteristics: not relevant (liquid)
9.2		Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant
9.2		Other safety characteristics
9.2		Miscibility: Completely miscible with water.
11.1	Classification according to GHS (1272/2008/EC, CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification acc. to GHS: This mixture does not meet the criteria for classification.
11.2		Information on other hazards: There is no additional information.
12.1		Biodegradation: The relevant substances of the mixture are readily biodegradable.
14.4	Packing group: not relevant	Packing group: not assigned

## V10

 Version number: 2.0  
 Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

Section	Former entry (text/value)	Actual entry (text/value)
14.7	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN): Not subject to ADR, RID and ADN.	
15.1	Restrictions according to REACH, Annex XVII: None of the ingredients are listed.	
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: None of the ingredients are listed.	
15.1		Seveso Directive
15.1		2012/18/EU (Seveso III): change in the listing (table)
15.1		List of pollutants (WFD): change in the listing (table)
15.1	Regulation 528/2012/EU concerning the making available on the market and use of biocidal products	
15.1		Regulation 528/2012/EU concerning the making available on the market and use of biocidal products: change in the listing (table)
15.1		Regulation on persistent organic pollutants (POP): None of the ingredients are listed.
15.1		Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market
15.1		National authorisation: United Kingdom: MAPP 19124
16		Abbreviations and acronyms: change in the listing (table)
16	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data: Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization

## V10

Version number: 2.0  
Replaces version of: 2018-12-13 (1)

Revision: 2022-06-13

Abbr.	Descriptions of used abbreviations
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.