

## VELOGY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Product name** : VELOGY PLUS**Design code** : A15457H

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

**Use** : Fungicide

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

**Company** : Syngenta UK Limited  
CPC4, Capital Park  
Fulboim  
Cambridge CB21 5XE**Telephone** : (01223) 883400**Telefax** : (01223) 882195**Website** : www.syngenta.co.uk

#### 1.4 Emergency telephone number

**Emergency tele-  
phone number** : +44 1484 538444

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Acute toxicity (Oral)	Category 4	H302
Acute toxicity (Inhalation)	Category 4	H332
Skin sensitisation	Sub-category 1B	H317
Serious eye damage	Category 1	H318
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

## VELOCITY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

### 2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



**Signal word** : Danger

**Hazard statements** : H302 + H332 Harmful if swallowed or if inhaled  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** : P102 Keep out of reach of children.  
 P261 Avoid breathing fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor

P391 Collect spillage.  
 P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed for as non-hazardous waste.

**Supplemental information** : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Hazardous components which must be listed on the label:

- benzovindiflupyr
- mixture of octanoic acid- decanoic acid- N,N-dimethylamide
- poly(oxy-1,2-ethanediyl), alpha-(9Z)-9-octadecenyl-omega-hydroxy-

### 2.3 Other hazards

None known.

## VELOGY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

##### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
mixture of octanoic acid- decanoic acid- N,N-dimethylamide	14433-76-2 1118-92-9 238-405-1 214-272-5	Xi R38 R41	Skin Irrit.2; H315 Eye Irrit.2; H319	25 - 35 % W/W
solvent naphtha (petroleum), highly arom.	64742-94-5 265-198-5 922-153-0 01-2119451097-39-0002	Xn, N R51/53 R65 R66	Asp. Tox.1; H304 Aquatic Chronic2; H411	15 - 25 % W/W
poly(oxy-1,2-ethanediyl), al-pha-(9Z)-9-octadecenyl-omega-hydroxy-	9004-98-2	Xi R41	Eye Dam.1; H318	15 - 25 % W/W
benzovindiflupyr	1072957-71-1 1072957-71-1 01-2119929229-31-0000	T, N R23/25 R50/53	Acute Tox.3; H301 Acute Tox.3; H331 Aquatic Acute1; H400 Aquatic Chronic1; H410	10.22 % W/W
oleic acid	112-80-1 67701-06-8 204-007-1 266-930-6	Xi R38	Skin Irrit.2; H315	2 - 10 % W/W
poly(oxy-1,2-ethanediyl), al-pha-[tris(1-phenylethyl)phenyl]-omega-hydroxy-	99734-09-5 70559-25-0 99734-09-5 70559-25-0	R52/53	Aquatic Chronic3; H412	1 - 5 % W/W

Substances for which there are Community workplace exposure limits.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

- General advice** : Have the product container, label or Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation** : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.

## VELOCITY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

- Skin contact** : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label.  
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

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

- Symptoms** : Aspiration may cause pulmonary oedema and pneumonitis.

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

- Medical advice** : There is no specific antidote available.  
Treat symptomatically.  
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray

Do not use a solid water stream as it may scatter and spread fire.

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

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.

### 5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

## VELOCITY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.  
Refer to disposal considerations listed in section 13.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

No special protective measures against fire required.  
Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

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

No special storage conditions required.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.

#### 7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

## VELOGY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
benzovindiflupyr	1 mg/m <sup>3</sup>	8 h TWA	SYNGENTA
solvent naphtha (petroleum), highly arom.	15 ppm, 100 mg/m <sup>3</sup>	8 h TWA	SUPPLIER

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

#### 8.2 Exposure controls

- Engineering measures** : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.  
The extent of these protection measures depends on the actual risks in use.  
If airborne mists or vapors are generated, use local exhaust ventilation controls.  
Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.  
Where necessary, seek additional occupational hygiene advice.
- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.  
Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : A particulate filter respirator may be necessary until effective technical measures are installed.  
Protection provided by air-purifying respirators is limited.  
Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection** : Suitable material: Nitrile rubber  
Break through time: > 480 min  
Glove thickness: 0.5 mm  
Chemical resistant gloves should be used.  
Gloves should be certified to an appropriate standard.  
Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure.  
The breakthrough time of gloves varies according to the thickness, material and manufacturer.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

## VELOGY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

- Eye protection** : If eye contact is possible, use tight-fitting chemical safety goggles and a face shield.
- Skin and body protection** : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material.  
Wash with soap and water after removing protective clothing.  
Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.)  
Wear as appropriate:  
impervious protective suit

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

- Physical state** : liquid
- Form** : solution clear to slightly turbid
- Colour** : amber to light brown
- Odour** : No data available
- Odour Threshold** : No data available
- pH** : 4 - 8 at 1 % w/v
- Melting point/range** : No data available
- Boiling point/boiling range** : No data available
- Flash point** : 101 °C at 101.9 kPa Pensky-Martens c.c.
- Evaporation rate** : No data available
- Flammability (solid, gas)** : No data available
- Lower explosion limit** : No data available
- Upper explosion limit** : No data available
- Vapour pressure** : No data available
- Relative vapour density** : No data available
- Density** : 0.978 g/cm<sup>3</sup> at 25 °C
- Solubility in other solvents** : No data available
- Partition coefficient:**  
**n-octanol/water** : No data available
- Auto-ignition temperature** : No data available
- Thermal decomposition** : No data available
- Viscosity, dynamic** : 24.6 mPa.s at 40 °C  
: 70.7 mPa.s at 20 °C
- Viscosity, kinematic** : >= 22.0 mm<sup>2</sup>/s at 40 °C
- Explosive properties** : Not explosive
- Oxidizing properties** : not oxidizing

#### 9.2 Other information

- Surface tension** : 31.3 mN/m at 20 °C

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

See section 10.3 "Possibility of hazardous reactions".

## VELOCITY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

### 10.2 Chemical stability

The product is stable when used in normal conditions

### 10.3 Possibility of hazardous reactions

No hazardous reactions by normal handling and storage according to provisions.

### 10.4 Conditions to avoid

No decomposition if used as directed.

### 10.5 Incompatible materials

No substances are known which lead to the formation of hazardous substances or thermal reactions.

### 10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute oral toxicity** : LD50 female Rat, 1,086 mg/kg

**Acute inhalation toxicity** : LC50 Rabbit, > 2.54 mg/l , 4 h

**Acute dermal toxicity** : LD50 male and female Rat, > 2,000 mg/kg

**Skin corrosion/irritation** : Rabbit: Non-irritating

**Serious eye damage/eye irritation** : Rabbit: Severely Irritating

**Respiratory or skin sensitisation** : Guinea pig: A skin sensitizer in animal tests.

Germ cell mutagenicity  
benzovindiflupyr : Animal testing did not show any mutagenic effects.

Carcinogenicity  
benzovindiflupyr : Studies in rodents have shown no treatment-related tumour findings of relevance to human health.

Reproductive toxicity  
benzovindiflupyr : Did not show reproductive toxicity effects in animal experiments.

STOT - single exposure  
benzovindiflupyr : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure



## VELOGY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

benzovindiflupyr : No adverse effect has been observed in chronic toxicity tests.

### Aspiration toxicity

solvent naphtha (petroleum), highly arom. : The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** : LC50 *Oncorhynchus mykiss* (rainbow trout), 0.068 mg/l , 96 h

**Toxicity to aquatic invertebrates** : EC50 *Daphnia magna* (Water flea), 0.27 mg/l , 48 h

**Toxicity to aquatic plants** : ErC50 *Pseudokirchneriella subcapitata* (green algae), 3.3 mg/l , 926 h

### 12.2 Persistence and degradability

#### Biodegradability

mixture of octanoic acid-decanoic acid-N,N-dimethylamide benzovindiflupyr : Readily biodegradable  
 benzovindiflupyr : Not readily biodegradable.

#### Stability in water

mixture of octanoic acid-decanoic acid-N,N-dimethylamide : Not persistent in water.

#### Stability in soil

mixture of octanoic acid-decanoic acid-N,N-dimethylamide : Not persistent in soil.

### 12.3 Bioaccumulative potential

benzovindiflupyr : Does not bioaccumulate.

### 12.4 Mobility in soil

benzovindiflupyr : Slightly mobile in soils

### 12.5 Results of PBT and vPvB assessment

benzovindiflupyr : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
 This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 12.6 Other adverse effects

## VELOGY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging** : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

### SECTION 14: TRANSPORT INFORMATION

#### Land transport (ADR/RID)

- 14.1 UN number:** UN 3082  
**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR)  
**14.3 Transport hazard class(es):** 9  
**14.4 Packing group:** III  
 Labels: 9  
**14.5 Environmental hazards :** Environmentally hazardous  
**Tunnel restriction code:** E

#### Sea transport(IMDG)

- 14.1 UN number:** UN 3082  
**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR)  
**14.3 Transport hazard class(es):** 9  
**14.4 Packing group:** III  
 Labels: 9  
**14.5 Environmental hazards :** Marine pollutant

#### Air transport (IATA-DGR)

- 14.1 UN number:** UN 3082  
**14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR)  
**14.3 Transport hazard class(es):** 9  
**14.4 Packing group:** III  
 Labels: 9

## VELOCITY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

### 14.6 Special precautions for user

none

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: REGULATORY INFORMATION

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

#### GHS-Labeling

##### Hazard pictograms



<b>Signal word</b>	:	Danger	
<b>Hazard statements</b>	:	H302 + H332 H317 H318 H410	Harmful if swallowed or if inhaled May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	:	P102 P261 P280  P302 + P352 P305 + P351 + P338  P310 P391 P501	Keep out of reach of children. Avoid breathing fume/gas/mist/vapours/spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.  IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  Immediately call a POISON CENTER/doctor Collect spillage. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed for as non-hazardous waste.
<b>Remarks</b>	:	Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.	

Hazardous components which must be listed on the label:

- benzovindiflupyr
- mixture of octanoic acid- decanoic acid- N,N-dimethylamide
- poly(oxy-1,2-ethanediyl), alpha-(9Z)-9-octadecenyl-omega-hydroxy-

## VELOCITY PLUS

Version 5 - This version replaces all previous versions.

Revision Date 20.08.2015

Print Date 20.08.2015

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: OTHER INFORMATION

### Further information

#### Approval number, MAPP 17866

**Use plant protection products safely. Always read the label and product information before use.**

**Based upon SDS release dated 20/08/2015, version 5 with local amendment.**

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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