

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

1/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

---

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

#### 1.1 Product identifier

Trade name VELUM PRIME  
Product code (UVP) 80978235

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

Use Nematicide, Fungicide  
EPA-Nr. HSR101067

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

Supplier Bayer New Zealand Limited  
Crop Science Division  
B:HIVE Building  
74 Taharoto Rd  
Smales Farm  
Takapuna  
Auckland, 0622  
New Zealand  
Telephone 0800 428 246  
Telefax (09) 441 8645

#### 1.4 Emergency telephone no.

Emergency Number 0800 734 607 (24hr)  
Global Incident Response Hotline (24h) +1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

---

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2020 as amended

STOT RE 2

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates

H433 Harmful to terrestrial vertebrates.

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

2/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

### 2.2 Label elements

Labelling in accordance with the Hazardous Substances (Safety Data Sheets) Notice 2020 as amended

Hazard label for supply/use required.



Signal word: Warning

#### Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H412 Harmful to aquatic life with long lasting effects.  
H433 Harmful to terrestrial vertebrates.

#### Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P314 Get medical advice/ attention if you feel unwell.  
P501 Dispose of contents/container in accordance with local regulation.

### 2.3 Other hazards

No additional hazards known beside those mentioned.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Chemical nature

Suspension concentrate (=flowable concentrate)(SC)  
Fluopyram 400 g/l

#### Hazardous components

Chemical name	CAS-No.	Conc. [%]
Fluopyram	658066-35-4	34.50
1,2-Benzisothiazol-3(2H)-one	2634-33-5	>= 0.005 – < 0.05
reaction mass of 5-chloro-2- methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)	55965-84-9	>= 0.00015 – < 0.0015

#### Further information

1,2-Benzisothiazol- 3(2H)-one	2634-33-5	M-Factor: 1 (acute)
----------------------------------	-----------	---------------------

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

3/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

---

<b>General advice</b>	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
<b>Inhalation</b>	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

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

**Symptoms** To date no symptoms are known.

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

**Treatment** There is no specific antidote. Treat symptomatically.  
Contact the National Poisons and Hazardous Chemicals Information center in Dunedin, PO Box 913, Dunedin. Phone 0800 POISON (0800 764 766).

---

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable** Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Sand

**Unsuitable** High volume water jet

### 5.3 Advice for firefighters

**Special protective equipment for firefighters** In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

**6.2 Environmental precautions** Do not allow to get into surface water, drains and ground water.

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

4/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

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

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Collect and transfer the product into a properly labelled and tightly closed container.

**6.4 Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion** No special precautions required.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

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

**Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from frost.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**Suitable materials** HDPE (high density polyethylene)  
Coex HDPE/EVOH/HDPE

**7.3 Specific end use(s)** Refer to the label and/or leaflet.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fluopyram	658066-35-4	0.34 mg/m <sup>3</sup> (TWA)		OES BCS*
1,2-Propanediol (Particulate.)	57-55-6	10 mg/m <sup>3</sup> (TWA)	07 2011	NZ OEL
1,2-Propanediol (Vapor and particulates.)	57-55-6	474 mg/m <sup>3</sup> /150 ppm (TWA)	07 2011	NZ OEL

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"



VELUM PRIME

Version 4 / NZ  
102000026892

5/11

Revision Date: 02.12.2022  
Print Date: 02.12.2022

8.2 Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

Respiratory protection is not required under anticipated circumstances of exposure.  
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Material	Nitrile rubber
Rate of permeability	> 480 min
Glove thickness	> 0.4 mm
Protective index	Class 6
Directive	Protective gloves complying with EN 374.

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.  
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.  
If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	suspension
Colour	white to beige
Odour	characteristic
Odour Threshold	No data available
pH	5.5 - 8.0 (100 %) (23 °C)
Melting point/range	No data available
Boiling Point	No data available
Flash point	> 85 °C

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

6/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

---

	No flash point up to decomposition.
<b>Flammability</b>	No data available
<b>Auto-ignition temperature</b>	430 °C
<b>Thermal decomposition</b>	No data available
<b>Ignition temperature</b>	430 °C
<b>Minimum ignition energy</b>	No data available
<b>Self-accelarating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Relative vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	ca. 1.16 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	Fluopyram: log Pow: 3.3
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Impact sensitivity</b>	Not impact sensitive.
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive 92/69/EEC, A.14 / OECD 113
<b>9.2 Other information</b>	Further safety related physical-chemical data are not known.

---

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

7/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

- 10.4 Conditions to avoid** Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials** Store only in the original container.
- 10.6 Hazardous decomposition products** No decomposition products expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

- Acute oral toxicity** LD50 (Rat) > 2,000 mg/kg
- Acute inhalation toxicity** LC50 (Rat) > 3.34 mg/l  
Exposure time: 4 h  
Highest attainable concentration.  
No deaths  
Determined in the form of a respirable aerosol.
- Acute dermal toxicity** LD50 (Rat) > 2,000 mg/kg
- Skin corrosion/irritation** No skin irritation (Rabbit)
- Serious eye damage/eye irritation** No eye irritation (Rabbit)
- Respiratory or skin sensitisation** Skin: Non-sensitizing. (Mouse)  
OECD Test Guideline 429, local lymph node assay (LLNA)

### Assessment STOT Specific target organ toxicity – single exposure

Fluopyram: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity – repeated exposure

Fluopyram did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Fluopyram was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Fluopyram caused at high dose levels an increased incidence of tumours in rats in the following organ(s): Liver.

Fluopyram caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Thyroid.

The tumours seen with Fluopyram were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers these tumours is not relevant to humans.

### Assessment toxicity to reproduction

Fluopyram caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Fluopyram is related to parental toxicity.

### Assessment developmental toxicity

Fluopyram caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Fluopyram are related to maternal toxicity.

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

8/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

No further toxicological information is available.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

---

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) > 284 mg/l  
Exposure time: 96 h  
Tested up to its maximum solubility.

#### Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 77.7 mg/l  
Exposure time: 48 h  
Tested up to its maximum solubility.

#### Toxicity to aquatic plants

EC50 (Raphidocelis subcapitata (freshwater green alga)) 22.9 mg/l  
Growth rate; Exposure time: 72 h  
ErC50 (Lemna gibba (gibbous duckweed)) 13.4 mg/l  
Growth rate; Exposure time: 7 d  
NOEC (Lemna gibba (gibbous duckweed)) 0.294 mg/l  
Growth rate; Exposure time: 7 d

### 12.2 Persistence and degradability

#### Biodegradability

Fluopyram:  
Not rapidly biodegradable

#### Koc

Fluopyram: Koc: 279

### 12.3 Bioaccumulative potential

#### Bioaccumulation

Fluopyram: Bioconcentration factor (BCF) 18  
Does not bioaccumulate.

### 12.4 Mobility in soil

#### Mobility in soil

Fluopyram: Moderately mobile in soils

### 12.5 Results of PBT and vPvB assessment

#### PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties



# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

9/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

**Assessment** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Additional ecological information** No other effects to be mentioned.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product** Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

**Contaminated packaging** Triple rinse containers. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

---

## SECTION 14: TRANSPORT INFORMATION

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

### ADR/RID/ADN

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUOPYRAM SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environm. Hazardous Mark	YES
Hazchem Code	3Z

### IMDG

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUOPYRAM SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Marine pollutant	YES

### IATA

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUOPYRAM SOLUTION)
14.3 Transport hazard class(es)	9

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

10/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

14.4 Packaging Group III  
14.5 Environm. Hazardous Mark YES

### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

---

## SECTION 15: REGULATORY INFORMATION

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

#### Further information

HSNO approval-Nr. HSR101067  
HSNO Controls See [www.epa.govt.nz](http://www.epa.govt.nz)  
ACVM Reg. P9252  
ACVM Condition See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

---

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE Acute toxicity estimate  
CAS-Nr. Chemical Abstracts Service number  
Conc. Concentration  
ECx Effective concentration to x %  
EINECS European inventory of existing commercial substances  
ELINCS European list of notified chemical substances  
EN European Standard  
EU European Union  
IATA International Air Transport Association  
IBC International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)  
ICx Inhibition concentration to x %  
IMDG International Maritime Dangerous Goods  
LCx Lethal concentration to x %  
LDx Lethal dose to x %  
LOEC/LOEL Lowest observed effect concentration/level  
MARPOL MARPOL: International Convention for the prevention of marine pollution from ships  
N.O.S. Not otherwise specified  
NOEC/NOEL No observed effect concentration/level  
OECD Organization for Economic Co-operation and Development  
RID Regulations concerning the International Carriage of Dangerous Goods by Rail  
TWA Time weighted average  
UN United Nations

# SAFETY DATA SHEET



## VELUM PRIME

Version 4 / NZ  
102000026892

11/11  
Revision Date: 02.12.2022  
Print Date: 02.12.2022

---

WHO World health organisation

Changes since the last version are highlighted in the margin. This version replaces all previous versions.