

Safety Data Sheet



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name Velocity® Selective Herbicide
Product code (UVP) 79140282

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

Use Herbicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer Cropscience Pty Ltd
ABN 87 000 226 022
Level 1, 8 Redfern Road
3123 Hawthorn East
Victoria
Australia

Telephone (03) 9248 6888
Telefax (03) 9248 6800
Responsible Department 1800 804 479 Technical Information Service
Website www.crop.bayer.com.au

1.4 Emergency telephone no.

Emergency telephone no. 1800 033 111 IXOM Operations Pty Ltd

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Australian GHS Regulation

Acute toxicity: Category 4

H302 Harmful if swallowed.

Carcinogenicity: Category 2

H351 Suspected of causing cancer.

Reproductive toxicity: Category 2

H361 Suspected of damaging fertility or the unborn child.

Aspiration hazard: Category 1

H304 May be fatal if swallowed and enters airways.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Safety Data Sheet



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

Bromoxynil octanoate
Bromoxynil heptanoate
Pyrasulfotole
Mefenpyr-diethyl
Solvent Naphtha (petroleum), heavy aromatic

Signal word: Danger

Hazard statements

H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P281 Use personal protective equipment as required.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
P331 Do NOT induce vomiting.
P330 Rinse mouth.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Bromoxynil: Pyrasulfotole: Mefenpyr-diethyl 210:37.5:9.4g/l
Emulsifiable concentrate (EC)

Chemical name	CAS-No.	Concentration [%]
Bromoxynil octanoate	1689-99-2	13.40
Bromoxynil heptanoate	56634-95-8	13.00
Pyrasulfotole	365400-11-9	3.30
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	>= 30.00 - <= 35.00
Propylene carbonate	108-32-7	>= 10.00 - <= 20.00
Naphthalene	91-20-3	< 5.00
2-Ethylhexan-1-ol	104-76-7	< 5.00
Mefenpyr-diethyl	135590-91-9	0.80
Other ingredients (non-hazardous) to 100%		

SECTION 4. FIRST AID MEASURES



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

4.1 Description of first aid measures

- Inhalation** Move to fresh air. Keep patient warm and at rest. Oxygen or artificial respiration if needed. Call a physician or poison control center immediately.
- Skin contact** Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control center immediately.
- Eye contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.
- Ingestion** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms** Local: Skin, eye and mucous membrane irritation. Systemic: Headache, Dizziness, Drowsiness, Somnolence, Thirst, Fever, Anxiety, Hyperventilation, Tachycardia, Aspiration may cause pulmonary oedema and pneumonitis. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment** Treat symptomatically. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically. In the event of a mouthful or more being ingested, the following measures should be considered: Monitor: respiratory and cardiac functions. Oxygen or artificial respiration if needed. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. In case of hyperthermia physical cooling is advisable; in case of muscle rigidity muscle relaxants and mechanical ventilation may support in counteracting hyperthermia. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

- Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

5.2 Special hazards arising from the substance or mixture In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen bromide (HBr), Hydrogen fluoride, Hydrogen cyanide (hydrocyanic acid), Carbon dioxide (CO₂), Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

Further information

Evacuate personnel to safe areas. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses.

Hazchem Code

•3Z

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. When dealing with a spillage do not eat, drink or smoke. Remove all sources of ignition.

6.2 Environmental precautions

Contain contaminated water and fire fighting water. Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

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). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

Keep away from heat and sources of ignition.

Hygiene measures

Contact with eyes and skin must be avoided. Wash thoroughly with soap and water after handling. Remove soiled clothing immediately and clean thoroughly before using again. Before removing gloves clean them with soap and water. Wash hands immediately after work, if necessary take a shower.

Safety Data Sheet



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store at room temperature.

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Bromoxynil octanoate	1689-99-2	0.21 mg/m ³ (SK-SEN)		OES BCS*
Pyrasulfotole	365400-11-9	0.3 mg/m ³ (TWA)		OES BCS*
Mefenpyr-diethyl	135590-91-9	10 mg/m ³ (TWA)		OES BCS*
Naphthalene	91-20-3	79 mg/m ³ /15 ppm (STEL)	12 2011	AU NOEL
Naphthalene	91-20-3	52 mg/m ³ /10 ppm (TWA)	12 2011	AU NOEL
Naphthalene	91-20-3	10 ppm (TLV)		OES BCS*

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

8.2 Exposure controls

Respiratory protection Use respiratory protection for organic vapours.

Hand protection PVC or nitrile rubber gloves

Eye protection Goggles

Skin and body protection Coveralls
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.
Chemical resistant shoes plus socks

General protective measures In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply.

Engineering Controls

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form Liquid, clear

Safety Data Sheet



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

Colour	light to dark brown
Odour	aromatic
pH	3 - 6 at 1 % (23 °C) (deionized water)
Flash point	91 °C
Upper explosion limit	7 %(V) The data refer to the solvent.
Lower explosion limit	0.6 %(V) The data refer to the solvent.
Vapour pressure	0.006 kPa at 20 °C The data refer to the solvent.
Density	ca. 1.14 g/cm ³ at 20 °C
Partition coefficient: n-octanol/water	Bromoxynil octanoate: log Pow: 5.4 Bromoxynil heptanoate: log Pow: 5.9 Pyrasulfotole: log Pow: -1.362 Mefenpyr-diethyl: log Pow: 3.83 at 21 °C
9.2 Other information	Further safety related physical-chemical data are not known.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions known.

10.4 Conditions to avoid Heat, flames and sparks.

10.5 Incompatible materials Oxidizing agents, Acids, Bases

10.6 Hazardous decomposition products Thermal decomposition can lead to release of:
Hydrogen chloride (HCl)
Hydrogen bromide (HBr)
Hydrogen fluoride
Hydrogen cyanide (hydrocyanic acid)
Carbon dioxide (CO₂)
Carbon monoxide
Sulphur oxides
Nitrogen oxides (NO_x)

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD₅₀ (Rat) 500 mg/kg



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

Acute inhalation toxicity	LC50 (Rat) > 5 mg/l Exposure time: 4 h Highest attainable concentration.
Acute dermal toxicity	LD50 (Rat) > 4,000 mg/kg
Skin irritation	Mild skin irritation (Rabbit)
Eye irritation	Moderate eye irritation (Rabbit)
Sensitisation	Non-sensitizing (Guinea pig)

Assessment mutagenicity

Bromoxynil octanoate was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Bromoxynil heptanoate was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Pyrasulfotole was not genotoxic in a battery of in vitro and in vivo tests.
Mefenpyr-diethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Bromoxynil octanoate caused at high dose levels an increased incidence of tumours in the following organ(s): Liver. The mechanism of tumour formation is not considered to be relevant to man.
Bromoxynil heptanoate caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism of tumour formation is not considered to be relevant to man.
Pyrasulfotole caused at high dose levels an increased incidence of tumours in the following organ(s): Cornea, urinary bladder. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.
Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.
Naphthalene caused an increased incidence of tumours after chronic inhalation of high vapour concentrations in the following organ: Respiratory Tract. The tumours seen with naphthalene were caused through a non-genotoxic mechanism, which is not relevant at low doses.

Assessment toxicity to reproduction

Bromoxynil octanoate did not cause reproductive toxicity in a two-generation study in rats.
Bromoxynil heptanoate did not cause reproductive toxicity in a two-generation study in rats.
Pyrasulfotole did not cause reproductive toxicity in a two-generation study in rats.
Mefenpyr-diethyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Bromoxynil octanoate caused a delayed foetal growth, an increased incidence of non-specific malformations. Bromoxynil octanoate caused developmental toxicity only at dose levels toxic to the dams.
Bromoxynil heptanoate caused developmental toxicity only at dose levels toxic to the dams.
Bromoxynil heptanoate caused a delayed foetal growth, an increased incidence of non-specific malformations.
Pyrasulfotole did not cause developmental toxicity in rats and rabbits.
Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.

Assessment STOT Specific target organ toxicity – single exposure

Bromoxynil octanoate: Based on available data, the classification criteria are not met.
Pyrasulfotole: Based on available data, the classification criteria are not met.
Mefenpyr-diethyl: Based on available data, the classification criteria are not met.



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

Assessment STOT Specific target organ toxicity – repeated exposure

Bromoxnyl octanoate caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver. The observed effects do not appear to be relevant for humans.
Bromoxnyl heptanoate caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver. The observed effects do not appear to be relevant for humans.
Pyrasulfotole did not cause specific target organ toxicity in experimental animal studies.
Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Irritating to skin. Did not cause sensitisation on laboratory animals. Prolonged skin contact may cause skin irritation and/or dermatitis.
Causes eye irritation.
Harmful if swallowed. Small amounts of the solvent in this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

Early onset symptoms related to exposure

Refer to Section 4

Delayed health effects from exposure

Refer to Section 11

Exposure levels and health effects

Refer to Section 4

Interactive effects

Not known

When specific chemical data is not available

Not applicable

Mixture of chemicals

Refer to Section 2.1

Further information

No further toxicological information is available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pyrasulfotole.
LC50 (Cyprinodon variegatus (sheepshead minnow)) > 100 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pyrasulfotole.



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

Toxicity to aquatic invertebrates

LC50 (*Lepomis macrochirus* (Bluegill sunfish)) > 100 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pyrasulfotole.

LC50 (*Lepomis macrochirus* (Bluegill sunfish)) 0.06 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient bromoxynil octanoate.

LC50 (*Lepomis macrochirus* (Bluegill sunfish)) 0.029 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient bromoxynil heptanoate.

LC50 (*Oncorhynchus mykiss* (rainbow trout)) 4.2 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient mefenpyr-diethyl.

LC50 (*Cyprinus carpio* (Carp)) 2.4 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient mefenpyr-diethyl.

EC50 (*Daphnia magna* (Water flea)) > 100 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient pyrasulfotole.

EC50 (*Daphnia magna* (Water flea)) 0.046 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient bromoxynil octanoate.

EC50 (*Daphnia magna* (Water flea)) 0.031 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient bromoxynil heptanoate.

EC50 (*Daphnia magna* (Water flea)) 53 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient mefenpyr-diethyl.

Toxicity to aquatic plants

EC50 (*Raphidocelis subcapitata* (freshwater green alga)) 29.8 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pyrasulfotole.

EC50 (*Desmodesmus subspicatus* (green algae)) 1 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient bromoxynil octanoate.

EC50 (*Raphidocelis subcapitata* (freshwater green alga)) 0.083 mg/l
Exposure time: 120 h
The value mentioned relates to the active ingredient bromoxynil heptanoate.

EC50 (*Desmodesmus subspicatus* (green algae)) 5.8 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient mefenpyr-diethyl.



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

Toxicity to other organisms LD50 (Colinus virginianus (Bobwhite quail)) > 2,000 mg/kg
The value mentioned relates to the active ingredient pyrasulfotole.

LD50 (Colinus virginianus (Bobwhite quail)) 170 mg/kg
The value mentioned relates to the active ingredient bromoxynil octanoate.

LD50 (Colinus virginianus (Bobwhite quail)) 379 mg/kg
The value mentioned relates to the active ingredient bromoxynil heptanoate.

LD50 (Coturnix japonica (Japanese quail)) > 2,000 mg/kg
The value mentioned relates to the active ingredient mefenpyr-diethyl.

12.2 Persistence and degradability

Biodegradability Bromoxynil octanoate:
Not rapidly biodegradable
Bromoxynil heptanoate:
Not rapidly biodegradable
Pyrasulfotole:
Not rapidly biodegradable
Mefenpyr-diethyl:
Not rapidly biodegradable

Koc Bromoxynil octanoate: Koc: 639
Bromoxynil heptanoate: Koc: ca. 600
Pyrasulfotole: Koc: 20 - 213
Mefenpyr-diethyl: Koc: 625

12.3 Bioaccumulative potential

Bioaccumulation Bromoxynil octanoate: Bioconcentration factor (BCF) 230
Does not bioaccumulate.
Bromoxynil heptanoate:
No data available, Does not bioaccumulate.
Pyrasulfotole:
Does not bioaccumulate.
Mefenpyr-diethyl: Bioconcentration factor (BCF) 232
Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Bromoxynil octanoate: Slightly mobile in soils
Bromoxynil heptanoate: Slightly mobile in soils
Pyrasulfotole: Moderately mobile in soils
Mefenpyr-diethyl: Slightly mobile in soils

12.5 Other adverse effects

Additional ecological information No other effects to be mentioned.

SECTION 13. DISPOSAL CONSIDERATIONS

Refillable containers:

Empty contents fully into application equipment. Close all valves and return to point of purchase. Refer to product label for further information.

100, 110 litre packs

Safety Data Sheet



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

If tamper evident seals are broken prior to initial use then the integrity of the contents cannot be assured. Empty container by pumping through dry-break connection system. Do not attempt to breach the valve system or the filling point, or contaminate the container with water or other products. Ensure that the coupler, pump, meter and hoses are disconnected, triple rinsed and drained after each use. When empty, or contents no longer required, return the container to the point of purchase. This container remains the property of Bayer CropScience Pty Ltd.

Metal drums and plastic containers:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Do not reuse container for any other purpose.

SECTION 14. TRANSPORT INFORMATION

ADG

UN number	3082
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL OCTANOATE SOLUTION)
Hazchem Code	•3Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN number	3082
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL OCTANOATE SOLUTION)

IATA

UN number	3082
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL OCTANOATE SOLUTION)

SECTION 15. REGULATORY INFORMATION

Safety Data Sheet



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994
Australian Pesticides and Veterinary Medicines Authority approval number: 62444

SUSMP classification (Poison Schedule)

Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons)

SECTION 16. OTHER INFORMATION

Trademark information Velocity® is a Registered Trademark of the Bayer Group.

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
AU OEL	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
CAS-Nr.	Chemical Abstracts Service number
CEILING	Ceiling Limit Value
Conc.	Concentration
EC-No.	European community number
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
OES BCS	OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"
PEAK	PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SK-SEN	Skin sensitiser
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.
STEL	STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL

Safety Data Sheet



Velocity® Selective Herbicide

Version 1 / AUS
102000018334

Revision Date: 13.10.2017
Print Date: 13.10.2017

	should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
TWA	TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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