



## Safety Data Sheet (GHS)

### 1. IDENTIFICATION

#### Product identifier

**PRODUCT NAME:** Velocity® SP Herbicide

**PCPA REGISTRATION NUMBER:** 28833

**VC NUMBER(S):** 1177

**Synonyms** None

**PRODUCT DESCRIPTION:** Selective Herbicide

#### Recommended use of the chemical and restrictions on use

**Recommended Use** No information available

**Restrictions on use** No information available

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

#### **MANUFACTURER/DISTRIBUTOR**

VALENT CANADA, INC.  
Unit 201 230 Hanlon Creek Blvd.  
Guelph, Ontario N1C 0A1  
(519) 767-9262  
www.valent.ca

#### **EMERGENCY TELEPHONE NUMBERS**

HEALTH EMERGENCY OR SPILL (24 hr):  
(800) 682-5368  
TRANSPORTATION (24 hr.): CHEMTREC  
(800) 424-9300 or (202) 483-7616

**24 Hour Emergency Phone Number:** (800) 682-5368

**Restrictions on emergency number** None

### 2. HAZARDS IDENTIFICATION

**Classification:** Per WHMIS 2015

This product has been classified under the Guidelines of 2015 Health Canada requirements and the implementation of the GHS (Revision 5) under HPR and the HPA.

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

#### Label elements

#### **WARNING**

#### **Hazard statements**

Harmful if inhaled

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**REVISION NUMBER:** 1

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**REVISION DATE:** 09/24/2019

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTRE or doctor/physician if you feel unwell

**OTHER INFORMATION**

Toxic to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Bispyribac-sodium	125401-92-5	76	-	-
Others	VARIOUS CAS#S	24	-	-

Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identity is withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 682-5368** at any time.

**4. FIRST AID MEASURES****General advice**

Have the product container or label with you when calling a poison control centre or doctor, or going for treatment. You may also contact 1-800-682-5368 for emergency medical treatment information.

**Inhalation**

Move the person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**Eye contact**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, and after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**Skin contact**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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**Ingestion** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control centre or doctor. Do not give anything to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Water fog, carbon dioxide, foam, dry chemical.

**Large Fire** Do NOT use water jet or straight streams.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products:** Under fire conditions, this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required.

**Methods and material for containment and cleaning up**

**Methods for containment** On Land: Avoid runoff into storm sewers and ditches which lead to waterways, or other bodies of water. Contain spilled liquids with dry sorbents.

On Water: This material is miscible in water. Stop or reduce contamination of any water. Isolate contaminated water.

**Methods for cleaning up** Avoid breathing dust or spray mist. Clean up spill immediately. Vacuum or sweep up material and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container. Prevent wash water from entering surface water or drains. Wear proper personal protective equipment.

## 7. HANDLING AND STORAGE

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**Precautions for safe handling****Advice on safe handling**

Use according to package label instructions. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep container tightly closed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Do not store or transport near food or feed. Do not use or store in or around the home. Keep pesticide in original container only. Store in a cool, dry secure place. Store in a well ventilated area.

Do not remove water soluble packet from outer bag except for immediate use. Do not allow to become wet in storage. Keep outer bag sealed when not in use.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**Hand protection**

Wear suitable gloves.

**Skin and body protection**

Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including long pants, long-sleeved shirt and shoes plus socks and chemical-resistant gloves. Remove contaminated clothing.

Wash hands and face thoroughly before eating, drinking, smoking, chewing gum, or using the toilet.

**Respiratory protection**

Use this material only in well ventilated areas. Use appropriate respiratory protection.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Colour	No information available
Odour	Odourless
Odor threshold:	No information available

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	8.8	1% dilution in water
Melting point/freezing point	No Data Available	None known
Boiling point/boiling range	No data available	None known
Flash point	No Data Available	None known
Evaporation rate	No Data Available	None known
Flammability (solid, gas)	No Data Available	None known
Flammability Limits in Air		None known
Upper flammability limits	No Data Available	
Lower Flammability Limit:	No Data Available	
Vapour pressure	No Data Available	None known
Vapour density	No Data Available	None known
Relative density	No Data Available	None known
Water solubility	6.75 g/100 mL water (Technical)	None known
Solubility in other solvents	No Data Available	None known
Partition coefficient	No Data Available	None known
Autoignition temperature	No Data Available	None known
Decomposition temperature	No Data Available	None known
Kinematic viscosity	No Data Available	None known
Dynamic viscosity	No Data Available	None known

### OTHER INFORMATION

Explosive properties	No information available.
Oxidizing properties	No information available.
Softening point	No information available
Molecular weight	No information available
VOC (EPA METH.24) (G/L):	No information available
Liquid Density	No information available
Bulk density	15.6 lb/ft <sup>3</sup>

## 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Oxidizing agents.
Hazardous Decomposition Products:	Under fire conditions, this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

The following information is for the technical material or a similar formulation.

Oral Toxicity LD <sub>50</sub> (rats)	>5,000 mg/kg	EPA Tox Category	IV
Dermal Toxicity LD <sub>50</sub> (rabbits)	>5,000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC <sub>50</sub> (rats)	>4.48 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Slightly irritating	EPA Tox Category	III
Skin Irritation (rabbits)	Non-irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Potential sensitizer	EPA Tox Category	Not applicable

### CARCINOGEN CLASSIFICATION

Chemical name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Bispyribac-sodium	Not listed	Not listed	Not listed
Others	Not listed	Not listed	Not listed

### TOXICITY OF BISPYRIBAC-SODIUM TECHNICAL

**Subchronic:** Bispyribac-sodium technical was tested in rats at dose levels of 0, 100, 1000, 10000, and 20000 ppm for 13 weeks. The NOEL was 100 ppm (7.2 mg/kg/day) in males and 1000 ppm (79.9 mg/kg/day) in female rats. Effects observed at higher doses included histopathological changes in the liver, urinary bladder and the bile duct; increased serum GOT, GPT and ALP; and reduced body weight gain. Bispyribac-sodium technical was also tested in dogs for 13 weeks at doses of 0, 30, 100 and 600 mg/kg/day. The NOEL was 100 mg/kg/day. Vomiting, salivation and loose stools were observed in animals exposed to 600 mg/kg/day. Histopathological changes in the liver were also noted in males at 600 mg/kg/day.

**Chronic/Carcinogenicity:** Bispyribac-sodium technical was tested in rats for 2 years at doses of 0, 20, 200, 3,500, and 7,000 ppm in males and 0, 20, 200, 5,000, and 10,000 ppm in females. The NOEL was 20 ppm (male 1.1 mg/kg/day, female 1.4 mg/kg/day). Effects observed at higher doses included decreased body weight gain; changes in hematological and blood biochemistry values; and histopathological lesions of the liver and bile duct. No neoplastic lesions were observed. Bispyribac-sodium technical was tested in mice for 18 months at doses of 0, 10, 100, 2,500, and 5,000 ppm. The NOEL was 100 ppm (14.1 mg/kg/day) in males and 10 ppm (1.7 mg/kg/day) in females. Effects observed at higher doses included reduced body weight gain; decreased liver weight; increased kidney weight; and histopathological changes in the liver. No neoplastic lesions were observed. A 52-week chronic toxicity study of bispyribac-sodium technical was conducted in dogs at doses of 0, 10, 100, and 750 mg/kg/day. The NOEL was 10 mg/kg/day. Effects observed at higher doses included salivation, vomiting and loose stools; increased liver weight; and histopathological changes in the bile duct.

**Developmental Toxicity:** Bispyribac-sodium technical was tested in a developmental toxicity study with rabbits at doses of 0, 30, 100 and 300 mg/kg/day. The NOEL for maternal toxicity was 100 mg/kg/day; and for developmental toxicity the NOEL was 300 mg/kg/day. Maternal toxicity included one death and premature delivery and slight depression of body weight gain.

Bispyribac-sodium technical was tested in a developmental toxicity study in rats at dose levels of 0, 100, 300 and 1000 mg/kg/day. The maternal NOEL was 300 mg/kg/day and the developmental NOEL was 1000 mg/kg/day. The maternal toxicity observed at 1000 mg/kg/day consisted of anogenital staining.

**Reproduction:** A two-generation rat reproduction study was conducted with bispyribac-sodium technical at doses of 0, 20, 1000, and 10,000 ppm. The NOELs for systemic adult toxicity, offspring developmental parameters and reproductive toxicity were 20, 1000, and 10,000 ppm, respectively. Systemic adult toxicity included decreased body weight gain and food consumption; increased liver weight; and histopathological changes in the liver and bile duct. The growth of the F1 and F2 offspring was inhibited at 10,000 ppm.

**Mutagenicity:** Bispyribac-sodium technical was negative in the following assays: reverse mutation (Ames); CHO, chromosomal aberration (*in vitro*); unscheduled DNA synthesis; and micronucleus in mice (*in vivo*).

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

## 12. ECOLOGICAL INFORMATION

**AVIAN TOXICITY:** Bispyribac-sodium technical is considered to be practically non-toxic to birds based on tests in the following avian species:

Oral LD <sub>50</sub> , bobwhite quail:	greater than 2250 ppm
Dietary LC <sub>50</sub> , bobwhite quail:	greater than 5620 ppm
Dietary LC <sub>50</sub> , mallard duck:	greater than 5620 ppm

**AQUATIC ORGANISM TOXICITY:** Bispyribac-sodium technical is considered practically non-toxic to fish and aquatic invertebrates based on results in the following tests:

Bluegill sunfish 96 hr. LC <sub>50</sub> :	greater than 100 ppm
Rainbow trout 96 hr. LC <sub>50</sub> :	greater than 100 ppm
Daphnia magna 48 hr. LC <sub>50</sub> :	greater than 100 ppm
Sheepshead minnow 96 hr. LC <sub>50</sub> :	greater than 100 ppm
Mysid shrimp 96 hr. LC <sub>50</sub> :	greater than 100 ppm
Oyster shell deposition 96 hr. EC <sub>50</sub> :	greater than 100 ppm

### OTHER ENVIRONMENTAL INFORMATION:

This product is toxic to non-target plants. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** When all the water soluble packets are used, make the empty outer bag unsuitable for further use. Dispose of the outer bag in accordance with provincial requirements.

## 14. TRANSPORTATION INFORMATION

**DOT (ground) shipping name:** Not regulated for domestic ground transport by US DOT or Canada TDG.

**Emergency Response**

**Guidebook No.:** Not applicable

<b>ICAO/IATA proper shipping name:</b>	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Bispyribac-sodium), 9, III, Marine Pollutant
<b>Remarks:</b>	<ul style="list-style-type: none"> <li>•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IATA Special Provision A197</li> <li>•For US shipping, Emergency Response Guidebook No. 171</li> </ul>
<b>IMDG proper shipping name:</b>	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Bispyribac-sodium), 9, III, Marine Pollutant
<b>Remarks:</b>	<ul style="list-style-type: none"> <li>•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IMDG 2.10.2.7</li> <li>•For US shipping, Emergency Response Guidebook No. 171</li> </ul>
<b>EMS No.:</b>	F-A, S-F

## 15. REGULATORY INFORMATION

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

### PMRA LABEL INFORMATION THAT DIFFERS FROM WHMIS-GHS REQUIREMENTS:

Pesticide products in Canada are registered by PMRA and are subject to certain labeling requirements under federal pesticide law. The label, as specified in the Pest Control Products Act, is the main document to be followed for safety, use, and handling. These label requirements may differ from the classification criteria and hazard information required under WHMIS GHS for the data sheets and for workplace labels of non-pesticide chemicals. The following hazard information is required on the product label:

**PMRA SIGNAL WORD:** • No Signal Word Required

**PMRA pesticide label hazard information:** Keep out of reach of children. Potential dermal sensitizer.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

**PESTICIDE REGULATIONS:** All pesticides are governed under PCPA (Pest Control Products Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**PROVINCIAL REGULATIONS:** This product did not trigger any provincial regulations.

### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

## 16. OTHER INFORMATION

<b>REASON FOR ISSUE:</b>	New format. Revisions throughout SDS.
<b>SDS NO.:</b>	CAN-0255
<b>PCPA REGISTRATION NUMBER:</b>	28833
<b>REVISION NUMBER:</b>	1
<b>REVISION DATE:</b>	09/24/2019
<b>SUPERCEDES DATE:</b>	February 14, 2011
<b>RESPONSIBLE PERSON(S):</b>	Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

Emergency Telephone: (800) 682-5368  
REVISION NUMBER: 1

SDS NO.: CAN-0255  
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The Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE PMRA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use.

The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the PMRA under the authority of the *Pest Control Products Act* through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use a PMRA-registered pesticide product in any manner inconsistent with its labeling.

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