

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29

Version: 7.0

Page: 1/12

(30575388/SDS\_CPA\_CA/EN)

### 1. Identification

#### Product identifier used on the label

## Viper ADV

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

Recommended use\*: crop protection product, herbicide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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

##### Company:

BASF Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

PCP# 30626/31422

Synonyms: Imazamox + bentazone sodium tech.

---

### 2. Hazards Identification

#### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

##### Classification of the product

|                 |          |  |
|-----------------|----------|--|
| Acute Tox.      | 4 (oral) | Acute toxicity                                 |
| Skin Sens.      | 1B       | Skin sensitization                             |
| Aquatic Acute   | 2        | Hazardous to the aquatic environment - acute   |
| Aquatic Chronic | 2        | Hazardous to the aquatic environment - chronic |

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 2/12  
(30575388/SDS\_CPA\_CA/EN)

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

|      |  |
|------|--|
| H302 | Harmful if swallowed.                            |
| H317 | May cause an allergic skin reaction.             |
| H401 | Toxic to aquatic life.                           |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |  |
|------|--|
| P280 | Wear protective gloves.  |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.                      |
| P273 | Avoid release to the environment.                                      |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P270 | Do not eat, drink or smoke when using this product.                    |
| P264 | Wash contaminated body parts thoroughly after handling.                |

Precautionary Statements (Response):

|             |  |
|-------------|--|
| P303 + P352 | IF ON SKIN (or hair): Wash with plenty of soap and water.                  |
| P333 + P311 | If skin irritation or rash occurs: Call a POISON CENTER or physician.      |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P330        | Rinse mouth  |
| P362 + P364 | Take off contaminated clothing and wash it before reuse.                   |
| P391        | Collect spillage.  |

Precautionary Statements (Disposal):

|      |   |
|------|---|
| P501 | Dispose of contents and container to hazardous or special waste collection point. |
|------|---|

---

### 3. Composition / Information on Ingredients

#### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

imazamox

CAS Number: 114311-32-9  
Content (W/W): 1.7 %  
Synonym: 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-

bentazone

CAS Number: 25057-89-0  
Content (W/W): 36.5 %  
Synonym: 3-Isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide;  
Bentazone

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 3/12  
(30575388/SDS\_CPA\_CA/EN)

---

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

##### If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

##### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

##### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

##### If swallowed:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

##### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

---

### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, foam, carbon dioxide

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

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, nitrogen oxides  
The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 4/12  
(30575388/SDS\_CPA\_CA/EN)

Protective equipment for fire-fighting:  
Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

---

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

---

## 7. Handling and Storage

### Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

### Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

---

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 5/12  
(30575388/SDS\_CPA\_CA/EN)

### 8. Exposure Controls/Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

No occupational exposure limits known.

#### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### **Personal protective equipment**

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

##### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

##### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Remove contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

---

### 9. Physical and Chemical Properties

|                  |  |                   |
|------------------|--|-------------------|
| Form:            | liquid   |                   |
| Odour:           | alcohol-like   |                   |
| Odour threshold: | Not determined due to potential health hazard by inhalation. |                   |
| Colour:          | brown  |                   |
| pH value:        | approx. 4 - 6<br>( 1 %(m), approx. 21 °C)                    | (pH Meter)        |
| Melting point:   | The product has not been tested.                             |                   |
| Boiling point:   | approx. 100 °C   | (measured)        |
| Flash point:     | > 100 °C   | (Regulation)      |
|                  | No flash point - Measurement made up to the boiling point.   | 440/2008/EC, A.9) |

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 6/12  
(30575388/SDS\_CPA\_CA/EN)

|   |  |                                |
|---|--|--------------------------------|
| Flammability:                                       | not applicable   |                                |
| Lower explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |                                |
| Upper explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |                                |
| Autoignition:                                       | 517 °C   | (Regulation 440/2008/EC, A.15) |
| Vapour pressure:                                    | The product has not been tested.   |                                |
| Density:  | approx. 1.18 g/cm <sup>3</sup><br>( 20 °C)   | (OECD Guideline 109)           |
| Vapour density:                                     | not applicable   |                                |
| Partitioning coefficient n-octanol/water (log Pow): | The statements are based on the properties of the individual components.   |                                |
| <i>Information on: bentazon sodium</i>              |  |                                |
| Partitioning coefficient n-octanol/water (log Pow): | 0.77   |                                |
|   | The values mentioned are those of the active ingredient.   |                                |
| -----   |  |                                |
| Thermal decomposition:                              | No decomposition if stored and handled as prescribed/indicated.  |                                |
| Viscosity, dynamic:                                 | 38 mPa.s<br>( 20 °C)   |                                |
| Viscosity, kinematic:                               | 17 mm <sup>2</sup> /s<br>( 40 °C)  | (OECD 114)                     |
| Solubility in water:                                | soluble  |                                |
| Evaporation rate:                                   | not applicable   |                                |
| Other Information:                                  | If necessary, information on other physical and chemical parameters is indicated in this section.  |                                |

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Oxidizing properties:

not fire-propagating (Regulation 440/2008/EC, A.21)

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 7/12  
(30575388/SDS\_CPA\_CA/EN)

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

---

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Slightly toxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

#### Oral

Type of value: LD50

Species: rat (female)

Value: > 500 - < 2,000 mg/kg

#### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 5 mg/l

Exposure time: 4 h

#### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg

#### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Irritation / corrosion

Assessment of irritating effects: May cause moderate but temporary irritation to the eyes. May cause slight irritation to the skin.

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 8/12  
(30575388/SDS\_CPA\_CA/EN)

---

### Skin

Species: rabbit  
Result: non-irritant

### Eye

Species: rabbit  
Result: non-irritant

### Sensitization

Assessment of sensitization: Caused skin sensitization in animal studies.

### Mouse Local Lymph Node Assay (LLNA)

Species: mouse  
Result: Caused skin sensitization in animal studies.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### Other Information

Misuse can be harmful to health.

### Medical conditions aggravated by overexposure

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

---

## 12. Ecological Information

### Toxicity

Aquatic toxicity  
Assessment of aquatic toxicity:



# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 9/12  
(30575388/SDS\_CPA\_CA/EN)

There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is not acutely harmful to aquatic invertebrates.

### Toxicity to fish

*Information on: bentazon sodium*  
LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss* (EPA 72-1)

*Information on: imazamox*  
LC50 (96 h) > 122 mg/l, *Oncorhynchus mykiss*  
-----

### Aquatic invertebrates

*Information on: bentazon sodium*  
EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

*Information on: imazamox*  
EC50 (48 h) > 100 mg/l, *Daphnia magna*  
-----

### Aquatic plants

*Information on: bentazon sodium*  
EC50 (7 d) 18 mg/l (growth rate), *Lemna gibba* (OECD guideline 221)  
EC10 (7 d) 3.9 mg/l (growth rate), *Lemna gibba* (OECD guideline 221)

*Information on: imazamox*  
EC50 (72 h) 29.1 mg/l (growth rate), *Pseudokirchneriella subcapitata*  
EC50 (7 d) 0.0085 mg/l (growth rate), *Lemna gibba*  
EC10 (7 d) 0.0036 mg/l (growth rate), *Lemna gibba*  
-----

### Chronic toxicity to fish

*Information on: bentazon sodium*  
No observed effect concentration (35 d) > 10 mg/l, *Pimephales promelas* (OECD Guideline 210)

*Information on: imazamox*  
No observed effect concentration (28 d) 1.22 mg/l, *Cyprinodon variegatus*  
-----

### Chronic toxicity to aquatic invertebrates

*Information on: bentazon sodium*  
No observed effect concentration (21 d) > 101 mg/l, *Daphnia magna* (OECD Guideline 202, part 2)

*Information on: imazamox*  
No observed effect concentration (21 d) > 10 mg/l, *Daphnia magna* (semistatic)  
-----

## **Persistence and degradability**

### Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components.

## **Bioaccumulative potential**

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 10/12  
(30575388/SDS\_CPA\_CA/EN)

### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

### Bioaccumulation potential

*Information on: bentazon sodium*

*Information on: imazamox*

*Bioconcentration factor: < 1, Lepomis macrochirus (OECD-Guideline 305)  
Does not accumulate in organisms.*

## Mobility in soil

### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: bentazon sodium*

*The product has not been tested. The statement has been derived from the properties of the individual components.*

*Information on: imazamox*

*The substance will not evaporate into the atmosphere from the water surface.  
Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.*

## Additional information

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

---

## 13. Disposal considerations

### **Waste disposal of substance:**

See product label for disposal and recycling instructions.

### **Container disposal:**

Rinse the container or liner as needed for disposal. Add rinsate to spray tank. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Consult the product label for additional details.

---

## 14. Transport Information

**Land transport**  
TDG

Not classified as a dangerous good under transport regulations

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 11/12  
(30575388/SDS\_CPA\_CA/EN)

### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains IMAZAMOX)

### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains IMAZAMOX)

### Further information

Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

---

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical DSL, CA released; restriction on quantity / not listed

Crop Protection DSL, CA released / exempt

### **Labeling requirements under Pest Control Products Act**

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

# Safety Data Sheet

## Viper ADV

Revision date : 2022/03/29  
Version: 7.0

Page: 12/12  
(30575388/SDS\_CPA\_CA/EN)



Warning: Poison

WARNING:  
Eye irritant.  
Potential skin sensitizer.  
Contains the allergen soy.  
KEEP OUT OF REACH OF CHILDREN.  
HARMFUL IF SWALLOWED.  
MAY CAUSE ALLERGIC SKIN REACTION.  
Causes eye irritation.  
May be fatal if swallowed.  
Do not get in eyes, on skin, or on clothing.  
Wash thoroughly after handling.

---

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

---

## 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2022/03/29

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

---

END OF DATA SHEET