

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 1/9  
(30670742/SDS\_CPA\_CA/EN)

---

### 1. Identification

#### Product identifier used on the label

**ZIDUA SC**

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

Recommended use\*: 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.  
100 Milverton Drive  
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

#### Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

PCP # 32542/32543

---

### 2. Hazards Identification

#### According to Controlled Products Regulations (CPR) (SOR/88-66)

##### Emergency overview

KEEP OUT OF REACH OF CHILDREN.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.

---

### 3. Composition / Information on Ingredients

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

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 2/9  
(30670742/SDS\_CPA\_CA/EN)

Not WHMIS controlled.

---

### 4. First-Aid Measures

#### Description of first aid measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention.

**If on skin:**

Wash thoroughly with soap and water.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

#### 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

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

#### Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 3/9  
(30670742/SDS\_CPA\_CA/EN)

or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

---

### 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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

---

### 7. Handling and Storage

#### Precautions for safe handling

Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: -5 °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.

---

### 8. Exposure Controls/Personal Protection

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

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 4/9  
(30670742/SDS\_CPA\_CA/EN)

No occupational exposure limits known.

### **Personal protective equipment**

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) particulate respirator.

#### **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:**

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

---

## 9. Physical and Chemical Properties

Form:	suspension	
Odour:	odourless	
Odour threshold:	not applicable, odour not perceivable	
Colour:	milky white	
pH value:	approx. 5 - 7 ( 1 %(m), 20 °C)	(pH Meter)
Melting temperature:	The product has not been tested.	
Boiling point:	approx. 98 °C	
Flash point:	No flash point - Measurement made up to the boiling point.	(Regulation 440/2008/EC, A.9)
Flammability:	not highly flammable	
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:	360 °C	(Regulation 440/2008/EC, A.15)
Vapour pressure:	not applicable	
Density:	approx. 1.21 g/cm <sup>3</sup> ( 20 °C)	
Vapour density:	not applicable	

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 5/9  
(30670742/SDS\_CPA\_CA/EN)

### *Information on: Pyroxasulfone*

Partitioning coefficient n-  
octanol/water (log Pow): 2.39  
( 25 °C)

-----  
Thermal decomposition: 210 °C, 240 kJ/kg (DSC (OECD 113))  
(onset temperature)

Viscosity, dynamic: approx. 60.2 mPa.s  
( 40 °C)

Solubility in water: dispersible

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

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

### Conditions to avoid

See MSDS section 7 - Handling and storage.

### 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:  
210 °C (DSC (OECD 113))  
(onset temperature)

---

## 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: Virtually nontoxic after a single ingestion. Virtually nontoxic after a  
single skin contact. Virtually nontoxic by inhalation.

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 6/9  
(30670742/SDS\_CPA\_CA/EN)

### Oral

Type of value: LD50  
Species: rat  
Value: > 2,000 mg/kg (OECD Guideline 423)  
No mortality was observed.

### Inhalation

Type of value: LC50  
Species: rat  
Value: > 3.8 mg/l (OECD Guideline 403)  
Exposure time: 4 h  
An aerosol with respirable particles was tested.  
No mortality was observed.

### Dermal

Type of value: LD50  
Species: rat  
Value: > 5,000 mg/kg (OECD Guideline 402)  
No mortality was observed.

### 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: Not irritating to the eyes. Not irritating to the skin.

### Skin

Species: rabbit  
Result: non-irritant  
Method: OECD Guideline 404

### Eye

Species: rabbit  
Result: non-irritant  
Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

### Mouse Local Lymph Node Assay (LLNA)

Species: mouse  
Result: Non-sensitizing.  
Method: OECD Guideline 429

### Aspiration Hazard

No aspiration hazard expected.

## **Chronic Toxicity/Effects**

### 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.

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 7/9  
(30670742/SDS\_CPA\_CA/EN)

### Carcinogenicity

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

### *Information on: Pyroxasulfone*

*Assessment of carcinogenicity: When given in high doses, the substance was carcinogenic in animal studies. Based on its mechanism of action, a carcinogenic potential is not expected after exposure to low doses.*

-----

### 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.

## **Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

---

## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Toxicity to fish

*Information on: Pyroxasulfone*

*LC50 (96 h) > 2.2 mg/l, Oncorhynchus mykiss*

-----

#### Aquatic invertebrates

*Information on: Pyroxasulfone*

*EC50 (48 h) > 4.4 mg/l, daphnia*

-----

#### Aquatic plants

*Information on: Pyroxasulfone*

*EC50 (7 d) 0.0055 mg/l, algae*

# Safety Data Sheet

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 8/9  
(30670742/SDS\_CPA\_CA/EN)

*EC50 (72 h) 0.000743 mg/l, algae*  
-----

### **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.

#### Assessment biodegradation and elimination (H2O)

*Information on: Pyroxasulfone*

*Not readily biodegradable (by OECD criteria).*  
-----

### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

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

### **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: Pyroxasulfone*

*No data available.*  
-----

### **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

## ZIDUA SC

Revision date : 2017/03/10  
Version: 2.0

Page: 9/9  
(30670742/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 PYROXASULFONE)

### 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 PYROXASULFONE)

---

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

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

Crop Protection DSL, CA released / exempt

### According to Controlled Products Regulations (CPR) (SOR/88-66)

WHMIS does not apply to this product.

---

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2017/03/10

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