

# SAFETY DATA SHEET

## CREDO SC Insecticide PMRA Reg. No. 33014

Version 1.0

Revision Date 03/28/2018

122000007168  
Print Date 03/28/2018



### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product information

**Product Name:** CREDO SC Insecticide  
**SDS Number:** 122000007168

**Use** : Pesticide

#### Company

Bayer Inc.  
2920 Matheson Boulevard East  
Mississauga, ON L4W 5R6  
CANADA  
(800) 622-2937

**In case of emergency:** Chemtrec: (800) 424-9300  
CANUTEC: (613) 996-6666

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### Classification according to national GHS implementation:

Acute toxicity, Oral, Category 4 (H302)

#### Label elements

#### Labelling according to national GHS implementation:



Warning

#### Hazard statements:

H302 Harmful if swallowed.

#### Precautionary statements:

##### Prevention:

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

##### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

##### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Hazardous components which must be listed on the label:

| Components: | CAS-No. |
|-------------|---------|
|-------------|---------|

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Imidacloprid

138261-41-3

### Other hazards

Other hazards which do not result in classification:  
None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

#### Hazardous components

##### Imidacloprid

Concentration [Weight percent] 43.67

CAS-No.: 138261-41-3

CAS name: 2-Imidazolidinimine, 1-((6-chloro-3-pyridinyl)methyl)-N-nitro

#### GHS Classification:



Acute Tox. 4 H302

M-Factor: 1,000

##### Polyoxyethylene(25)tristyrylphenol

Concentration [Weight percent] 1.5

CAS-No.: 99734-09-5

#### GHS Classification:



Eye Irrit. 2 H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. Call a physician immediately.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.

#### Most important acute symptoms/effects

**Symptoms:** No information available.

**Risks:** No information available.

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

No information available.

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## 5. FIREFIGHTING MEASURES

### Extinguishing media

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

**Unsuitable extinguishing media:** High volume water jet

### Special hazards arising from the substance or mixture

**Specific hazards during firefighting:** Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

### Advice for firefighters

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

### Environmental precautions

### Methods and materials for containment and cleaning up

**Methods for cleaning up:** Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

### Reference to other sections

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling:

Store in area specific for pesticides. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

### Conditions for safe storage, including any incompatibilities

### Specific end use(s)

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

| Components       | CAS-No.     | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|------------------|-------------|----------------------------------|---------------------------------------------------|-----------|
| Imidacloprid     | 138261-41-3 | SUP                              | 0.7 mg/m <sup>3</sup>                             |           |
| Glycerol         | 56-81-5     | TWA (Mist)                       | 10 mg/m <sup>3</sup>                              | CA AB OEL |
|                  |             | TWA (Mist)                       | 10 mg/m <sup>3</sup>                              | CA BC OEL |
|                  |             | TWA<br>(Respirable mist)         | 3 mg/m <sup>3</sup>                               | CA BC OEL |
|                  |             | TWAEV<br>(Mist)                  | 10 mg/m <sup>3</sup>                              | CA QC OEL |
| Propane-1,2-diol | 57-55-6     | TWA<br>(Vapour and aerosols)     | 50 ppm<br>155 mg/m <sup>3</sup>                   | CA ON OEL |
|                  |             | TWA<br>(aerosol)                 | 10 mg/m <sup>3</sup>                              | CA ON OEL |

**Personal protective equipment**

Respiratory protection : Recommended Filter type:  
Organic vapor with prefilter  
  
None required for consumer use of this product.

Hand protection  
Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

Eye protection : Safety glasses  
None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.  
Please consult label for end-user requirements.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Form: liquid  
Colour: brown  
Odour: weak  
Melting point/range: No statements available.  
Boiling point/boiling range: No statements available.  
Density: 1.297 g/cm<sup>3</sup> at 20 °C

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|                                             |                                        |
|---------------------------------------------|----------------------------------------|
| Bulk density:                               | Not applicable                         |
| Vapour pressure:                            | No statements available.               |
| Viscosity, dynamic:                         | No statements available.               |
| Viscosity, kinematic:                       | No statements available.               |
| Flow time:                                  | No statements available.               |
| Surface tension:                            | No statements available.               |
| Water solubility:                           | No statements available.               |
| Solubility(ies):                            | No statements available.               |
| pH:                                         | 6.5 - 8.5                              |
| Corrosive to metal:                         | No statements available.               |
| Partition coefficient<br>(n-octanol/water): | Imidacloprid<br>log Pow: 0.57 at 21 °C |
| Flash point:                                | > 100 °C                               |
| Inflammability (solid, gaseous):            | Not applicable                         |
| Explosion limits:                           | No statements available.               |

OECD 107

### Other information

Miscibility with water: No statements available.

## 10. STABILITY AND REACTIVITY

### Reactivity

No statements available.

### Reactions with water / air:

No statements available.

### Ignition temperature:

No statements available.

### Burning number:

### Imidacloprid

5 at 20 °C Method: VDI 3673 Burning with flames or flying sparks.

fire spread velocity > 45 s/10 cm (EEC Method A.10)

### Chemical stability

No statements available.

### Thermal decomposition:

No data available

### Dust explosion characteristic number:

Not applicable

### Dust explosion class:

Not applicable

### Impact sensitivity:

No data available

### Hazardous reactions:

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No data available

### **Explosive properties:**

No statements available.

### **Possibility of hazardous reactions**

#### **deflagration ability:**

No statements available.

#### **Smoldering combustion:**

No statements available.

#### **Conditions to avoid**

No data available

#### **Minimum ignition energy:**

No data available

#### **Oxidizing properties:**

No statements available.

### **Incompatible materials**

#### **Materials to avoid:**

Oxidizing agents

#### **Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

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## 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### **Product:**

Acute oral toxicity : Acute toxicity estimate (ATE): 970.92 mg/kg  
Method: Calculation method  
Assessment: Harmful if swallowed.  
Remarks: Calculated for GHS Classification and Labelling.

Acute toxicity estimate (ATE): 970.92 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate (ATE): > 10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Method: Calculation method

#### **Components:**

##### **Imidacloprid:**

Acute oral toxicity : LD50 (Rat): 424 mg/kg  
Assessment: The component/mixture is toxic after single ingestion.

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Acute inhalation toxicity : LC50 (Rat): > 5.323 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist/aerosol  
Method: OECD 403  
Assessment: The component/mixture is minimally toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Assessment: No adverse effect has been observed in acute toxicity tests.

### Skin corrosion/irritation

#### Components:

##### **Imidacloprid:**

Species: Rabbit

Result: No skin irritation

### Serious eye damage/eye irritation

#### Components:

##### **Imidacloprid:**

Species: Rabbit

Result: No eye irritation

### Respiratory or skin sensitisation

#### Components:

##### **Imidacloprid:**

Test Type: Skin sensitization

Species: Guinea pig

Method: Magnusson and Kligmann maximization test

Result: Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

#### Components:

##### **Imidacloprid:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

: Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: No indication of mutagenic effects., No evidence of a genotoxic effect.

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### STOT - repeated exposure

#### Components:

##### **Imidacloprid:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Imidacloprid:**

|                                                     |   |                                                                                                                                                                               |
|-----------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Leuciscus idus (Golden orfe)): 237 mg/l<br>Exposure time: 96 h<br>Test Type: Acute Fish toxicity                                                                        |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 85 mg/l<br>Exposure time: 48 h                                                                                                             |
| Toxicity to algae                                   | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br><br>EC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l<br>Exposure time: 72 h |
| M-Factor (Acute aquatic toxicity)                   | : | 1,000                                                                                                                                                                         |
| Toxicity to bacteria                                | : | EC50 (activated sludge micro-organism): > 10,000 mg/l<br>Method: OECD 209                                                                                                     |

### Ecotoxicology Assessment

|                          |   |                                                       |
|--------------------------|---|-------------------------------------------------------|
| Acute aquatic toxicity   | : | Very toxic to aquatic life.                           |
| Chronic aquatic toxicity | : | Very toxic to aquatic life with long lasting effects. |

### Persistence and degradability

#### Components:

##### **Imidacloprid:**

|                    |   |                                                                                                                                                                                                  |
|--------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stability in water | : | Degradation half life: > 1 a (25 °C) pH: 4<br>Hydrolysis: at 25 °C<br><br>Degradation half life: > 1 a (25 °C) pH: 7<br>Hydrolysis: at 25 °C<br><br>Degradation half life: ca. 1 h (25 °C) pH: 9 |
|--------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Hydrolysis: at25 °C

### Bioaccumulative potential

#### Components:

##### Imidacloprid:

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 0.57 (21 °C)  
Method: OECD 107

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : Do not allow to enter surface waters or groundwater.

#### Components:

##### Imidacloprid:

Adsorbed organic bound halogens (AOX) : Remarks: The product contains organic halogens.

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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## 14. TRANSPORT INFORMATION

US Land transport (CFR)  
non-regulated

### Sea transport (IMDG)

UN Number

Description of the goods

3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(IMIDACLOPRID)

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|                  |     |
|------------------|-----|
| Class            | 9   |
| Packaging group  | III |
| IMDG-Labels      | 9   |
| EmS Number       | F-A |
| Marine pollutant | yes |

### Air transport (IATA)

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| UN Number                | 3082                                                                     |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(IMIDACLOPRID) |

|                           |     |
|---------------------------|-----|
| Class                     | 9   |
| Packaging group           | III |
| Dangerous goods labels    | 9   |
| Environmentally hazardous | yes |

### Land transport TDG non-regulated

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## 15. REGULATORY INFORMATION

### The components of this product are reported in the following inventories:

: This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

Imidacloprid

### Canadian lists

No substances are subject to a Significant New Activity Notification.

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## 16. OTHER INFORMATION

### Full text of H-Statements mentioned in chapters 2 and 3

|      |                                |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H319 | Causes serious eye irritation. |

### Further information

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