

**SAFETY DATA SHEET**
CREDO SC Insecticide

122000007168

Version 3.1

Revision Date 07/16/2010

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product Name: CREDO SC Insecticide
MSDS Number: 122000007168

Company

BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtec: (800) 424-9300
BAYER INFORMATION PHONE:(800) 633-3796
INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION**Emergency Overview**

<p>CAUTION! Colour: brown Form: liquid Odour: weak. Highly toxic to aquatic invertebrates Highly toxic to bees. Harmful if absorbed through skin. Harmful if swallowed.</p>
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Hazard Communication (29CFR 1910.1200)

Eye Contact Inhalation Skin Contact

Acute Inhalation Hazards May cause nose, throat, and lung irritation.

Acute Skin Hazards May cause slight irritation.

Acute Eye Hazards May cause slight irritation.

Acute Ingestion Hazards Expected to be harmful.

Medical Conditions Aggravated by Exposure Eye disorders, Skin disorders, Respiratory tract disorders

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Weight percent	Components	CAS-No.
30 - 60%	Imidacloprid	138261-41-3
10 - 30%	Polyhydric alcohol	
3 - 7%	Glycol	

4. 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.

Contact Number: Use the Bayer Emergency Number in Section 1

5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO₂)

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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

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

7. HANDLING AND STORAGE

Handling:

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

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Polyhydric alcohol

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 10 mg/m³ (Mist.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 5 mg/m³ (Respirable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 15 mg/m³ (Total dust.)

Glycol

US. Workplace Environmental Exposure Level (WEEL) Guides

Time Weighted Average (TWA): 10 mg/m³ (Aerosol.)

Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

Hand protection:

Chemically resistant gloves.

Eye protection:

Protective goggles

Other protective measures:

Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:

brown

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Odour:	weak
Density:	1.297 g/cm ³ at 68 °F (20 °C)
Vapour pressure:	no data available
Viscosity, dynamic:	no data available
Miscibility with water:	no data available
pH:	6.5 - 8.5
Partition coefficient (n-octanol/water):	no data available
Flash point:	> 212 °F (100 °C)
Ignition temperature:	not determined

10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

Thermal decomposition:

no data available

Hazardous decomposition products:

Carbon monoxide, Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:

Imidacloprid

LD50 rat: 424 mg/kg

Polyhydric alcohol

LD50 rat: > 2,000 mg/kg

Glycol

LD50 rat: 19400 - 36000

Acute inhalation toxicity:

Imidacloprid

LC50 rat: > 5.323 mg/l, 4 h

Method: OECD Test Guideline 403

Dust

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LC50rat: > 69 mg/l, 4 h
aerosol

Acute dermal toxicity:

Imidacloprid
LD50 rat: > 5,000 mg/kg

Glycol
LD50 rabbit: 20800

Skin irritation:

Imidacloprid
rabbit
Result: No skin irritation

Polyhydric alcohol
rabbit
Result: No skin irritation

Glycol
rabbit
slight irritation

Eye irritation:

Imidacloprid
rabbit
Result: No eye irritation

Polyhydric alcohol
rabbit
Result: No eye irritation

Glycol
rabbit
slight irritation

Sensitisation:

Imidacloprid
Skin sensitization guinea pig
Result: Did not cause sensitization on laboratory animals.
Method: Magnusson and Kligmann maximization test

Glycol
Human experience
Result: not sensitizing

Genotoxicity in vitro:

Imidacloprid
Ames test
Result: negative

Glycol
Ames test Bacteria
Result: negative

Pharmaceutic effects:

Imidacloprid
Insecticide

12. ECOLOGICAL INFORMATION

General advice:

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Imidacloprid

Acute Fish toxicity: LC50 280 mg/l

Test species: Cyprinus carpio (Carp) Duration of test: 96 h

Acute Fish toxicity: LC50 211 mg/l

Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 237 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Polyhydric alcohol

Acute Fish toxicity: LC50 > 5,000 mg/l

Test species: Carassius auratus (goldfish) Duration of test: 24 h

Acute Fish toxicity: LC100 51,000 - 57,000 mg/l

Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 > 250 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 48 h

Glycol

Acute Fish toxicity: LC50 > 20,000 mg/l

Test species: Pimephales promelas (fathead minnow) Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Imidacloprid

EC50 85 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

EC50 0.055 mg/l

Test species: Hyalella azteca Duration of test: 96 h

Not relevant

LC50 0.0552 mg/l

Test species: Chironomus Riparius (non-biting midge) Duration of test: 24 h

Not relevant

Polyhydric alcohol

EC50 > 10,000 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 24 h

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EC0 > 500 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 24 h

Glycol

LC50 34,400 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Toxicity to algae:

Imidacloprid

EC50 > 100 mg/l

tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 72 h

EC50 > 10 mg/l

tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Toxicity to bacteria:

Imidacloprid

EC50 > 10,000 mg/l

tested on: activated sludge micro-organism

Method: OECD TG 209

Glycol

> 20,000 mg/l

tested on: Pseudomonas putida

Biodegradability:

Glycol

Readily biodegradable.

Bioaccumulation:

Imidacloprid

Low potential for bioaccumulation

13. DISPOSAL CONSIDERATIONS

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)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (DOT)

Non-Regulated

Inland waterway transport

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Non-Regulated

Railway transport
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO / IATA cargo aircraft only)
Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)
Non-Regulated

15. REGULATORY INFORMATION

FIFRA Status This product is registered with the EPA under FIFRA.
US. Toxic Substances Control Act This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components
None

SARA Section 311/312 Hazard Categories Immediate Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components
None

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components
None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
10 - 30%	Polyhydric alcohol	
3 - 7%	Glycol	

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

NFPA 704M Rating

Health	2
Flammability	1
Reactivity	0
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.