

**SAFETY DATA SHEET**
CREDO SC Insecticide

122000007168

Version 4.0

Revision Date 11/10/2014

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

Product Name: CREDO SC Insecticide
MSDS Number: 122000007168

Use : Pesticide

Company

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

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

2. HAZARDS IDENTIFICATION**Emergency Overview**

WARNING! Colour: brown Form: liquid Odour: weak.
Highly toxic to aquatic invertebrates Highly toxic to bees. Harmful if absorbed through skin. Harmful if swallowed.

GHS Classification:

Acute toxicity (Oral) : Category 4

GHS Label element:

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.

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Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/
physician if you feel unwell.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal
plant.

Other hazards which do not result in classification:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Weight percent	Components	CAS-No.
10 - 30%	Glycerol	56-81-5
43.67%	Imidacloprid	138261-41-3
3 - 7%	Propane-1,2-diol	57-55-6
1 - 5%	Polyoxyethylene(25)tristyrylphenol	99734-09-5

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. FIREFIGHTING 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 firefighting: Fire may cause evolution of: Carbon monoxide (CO)
Carbon dioxide (CO₂)

Special protective equipment for firefighters: 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.

|| No special protective measures against fire required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Glycerol (56-81-5)

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.)

Propane-1,2-diol (57-55-6)

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

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

Respiratory protection:

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Recommended Filter type: Organic vapor with prefilter

Hand protection:
Chemically resistant gloves.

Eye protection:
Safety glasses

Other protective measures:
Wear suitable protective equipment.

Please consult label for end-user requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	brown
Odour:	weak
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	1.297 g/cm ³ at 68 °F (20 °C)
Bulk density:	No applicable information is available
Vapour pressure:	No applicable information is available
Viscosity, dynamic:	No applicable information is available
Viscosity, kinematic:	No applicable information is available
Flow time:	No applicable information is available
Surface tension:	No applicable information is available
Miscibility with water:	No applicable information is available
Water solubility:	No applicable information is available
pH:	6.5 - 8.5
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available
Flash point:	> 212 °F (100 °C)
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

Hazardous reactions: no data available

Thermal decomposition:

no data available

Hazardous decomposition products:

Carbon monoxide (CO), Carbon dioxide (CO₂)

Oxidizing properties:

No statements available.

Impact Sensitivity:

no data available

11. TOXICOLOGICAL INFORMATION

Other information on toxicity:

Glycerol

Inhalation of vapors causes irritation of the respiratory tract.

Ingestion of large quantities: Vomiting, Abdominal pain, headaches, Dizziness, Diarrhoea, Cyanosis

Acute oral toxicity:

Acute toxicity estimate (ATE) 970.92 mg/kg

Harmful if swallowed.

Method: Calculation method

Calculated for GHS Classification and Labelling.

Acute inhalation toxicity:

Glycerol

LC50 rat, male: > 2.75 mg/l, 4 h

The substance or mixture has no acute inhalation toxicity

Method: Calculation method

Imidacloprid

LC50 rat: > 5.323 mg/l, 4 h

May be harmful if inhaled.

Method: OECD 403

Propane-1,2-diol

LC50 rabbit: > 317 mg/l, 2 h

The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity:

Glycerol

LD50 rabbit: > 18,700 mg/kg

The substance or mixture has no acute dermal toxicity

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Imidacloprid
LD50 rat: > 5,000 mg/kg
The substance or mixture has no acute dermal toxicity

Propane-1,2-diol
LD50 rabbit: > 5,000 mg/kg
The substance or mixture has no acute dermal toxicity

Skin irritation:

Glycerol
rabbit
Result: No skin irritation

Imidacloprid
rabbit
Result: No skin irritation

Propane-1,2-diol
rabbit
Result: No skin irritation

Eye irritation:

Glycerol
rabbit
Result: No eye irritation

Imidacloprid
rabbit
Result: No eye irritation

Propane-1,2-diol
rabbit
Result: No eye irritation
slight irritation

Sensitisation:

Glycerol

Patch test on human volunteers did not demonstrate sensitization properties.

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

Propane-1,2-diol
Human experience
Result: Does not cause skin sensitization.

guinea pig
Result: Does not cause skin sensitization.

Method: OECD 406

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Subacute, subchronic and prolonged toxicity:

Propane-1,2-diol

NOEL 50,000 mg/kg, rat Oral, Exposure time 24 month

NOEL 1 mg/l, rat Inhalation, Exposure time 3 month

Number of exposures: once daily

Genotoxicity in vitro:

Glycerol

Ames test

Result: negative

Imidacloprid

Ames test

Result: negative

In vitro tests did not show mutagenic effects

Propane-1,2-diol

Ames test Bacteria

Dose: yes

Result: negative

Method: OECD 471

Mammalian cells

Result: negative

Method: OECD 476

Genotoxicity in vivo:

Imidacloprid

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

Propane-1,2-diol

Result: negative

Method: OECD 478

Carcinogenicity:

Imidacloprid

Result: Animal testing did not show any carcinogenic effects.

Propane-1,2-diol

rat:

Exposure time: 2 a

Number of exposures: once daily

Result: negative

Reproductive toxicity:

Imidacloprid

Result: Animal studies have produced no evidence of toxic effects on reproduction.

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Propane-1,2-diol
Application Route: Oral
rat, female: Test period: 18 d
NOAEL: 1600 mg/kg
Result: Animal testing did not show any effects on fertility.

Teratogenicity:

Imidacloprid
Result: Animal studies have produced no evidence of harmful effects on development.

Propane-1,2-diol
rat, male: Number of exposures: once daily
Test period: 15 d
NOAEL: 1600 mg/l
Result: No indication of teratogenic effects.

Pharmaceutical effects:

Imidacloprid
Insecticide

Carcinogenicity:

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

STOT - single exposure:

no data available

STOT - repeated exposure:

Components:

138261-41-3 :

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

12. ECOLOGICAL INFORMATION

General advice:

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Glycerol
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

Imidacloprid
Acute Fish toxicity: LC50 280 mg/l
Test species: Cyprinus carpio (Carp) Duration of test: 96 h

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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

Propane-1,2-diol
Acute Fish toxicity: LC50 40,613 mg/l
Test species: *Pimephales promelas* (fathead minnow) Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Glycerol
EC50 > 10,000 mg/l
Test species: *Daphnia magna* (Water flea) Duration of test: 24 h

EC0 > 500 mg/l
Test species: *Daphnia magna* (Water flea) Duration of test: 24 h

Imidacloprid
EC50 0.055 mg/l
Test species: *Hyaella azteca* Duration of test: 96 h

Propane-1,2-diol
LC50 18,340 mg/l
Test species: *Ceriodaphnia dubia* Duration of test: 48 h

Toxicity to algae:

Glycerol
IC5 > 10,000 mg/l
tested on: *Scenedesmus quadricauda* (Green algae) Duration of test: 7 d

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

Propane-1,2-diol
IC50 19,100 mg/l
tested on: *Pseudokirchneriella subcapitata* (green algae)

Toxicity to bacteria:

Glycerol
EC5 > 10,000 mg/l
tested on: *Pseudomonas putida*
Duration of test: 16 h

EC5 3,200 mg/l
tested on: Protozoa
Duration of test: 72 h

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Imidacloprid
EC50 > 10,000 mg/l
tested on: activated sludge micro-organism
Method: OECD 209

- Propane-1,2-diol
NOEC 20,000 mg/l
tested on: Pseudomonas putida
Duration of test: 18 h

Biodegradability:

Glycerol
63 %, 14 d rapidly biodegradable
Method: OECD 301 C

Propane-1,2-diol
87 - 92 %, 28 d rapidly biodegradable
Method: OECD 301 C

Bioaccumulation:

Glycerol

Bioaccumulation is unlikely.

Imidacloprid

Low potential for bioaccumulation

Propane-1,2-diol

Bioconcentration factor (BCF)
0.09

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

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Land transport (CFR)
non-regulated

US Sea transport (IMDG)
non-regulated

US Air transport (ICAO / IATA cargo aircraft only)
non-regulated

US Air transport (ICAO / IATA passenger and cargo aircraft)
non-regulated

International IATA

UN Number	3082
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID)
Class	9
Packaging group	III
Dangerous goods labels	9
Environmentally hazardous	yes

International IMDG

UN Number	3082
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID)
Class	9
Packaging group	III
IMDG-Labels	9
EmS Number	F-A
Marine Pollutant	yes

15. REGULATORY INFORMATION

Other regulations: No statements available.

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

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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%	Glycerol	56-81-5
3 - 7%	Propane-1,2-diol	57-55-6

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

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.