

# **CALYPSO® 480 SC INSECTICIDE**

Version 2.0 / CDN 10200008338

1/9 Revision Date: 11/09/2018 Print Date: 11/09/2018

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier	
Trade name	CALYPSO® 480 SC INSECTICIDE
Product code (UVP)	06265790
SDS Number	10200008338
PCP Registration No.	28429
Relevant identified uses of the	e substance or mixture and uses advised against
Use	Insecticide
Restrictions on use	See product label for restrictions.
Information on supplier	
Supplier	Bayer CropScience Inc #200, 160 Quarry Park Blvd, SE Calgary, Alberta T2C 3G3 Canada
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.	
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-888-283-6847

### **SECTION 2: HAZARDS IDENTIFICATION**

Classified in accordance with Part 2 of the Hazardous Products Regulations

Skin sensitisation: Category 1 Carcinogenicity: Category 2 Acute toxicity(Oral, Inhalation): Category 4 Reproductive toxicity: Category 1B Specific target organ toxicity - single exposure: Category 3

### Labelling in accordance with Part 3 of the Hazardous Products Regulations



Signal word: Danger

Hazard statements May cause an allergic skin reaction.



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Suspected of causing cancer. Harmful if swallowed or if inhaled. May damage fertility or the unborn child. May cause respiratory irritation.

#### **Precautionary statements**

Avoid breathing mist/ spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. IF ON SKIN: Wash with plenty of water/ soap. If skin irritation or rash occurs: Get medical advice/ attention. Specific treatment (see supplemental first aid instructions on this label). Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/ attention. IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. Rinse mouth. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified. No health hazards not otherwise classified.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Thiacloprid	111988-49-9	40.4

### **SECTION 4: FIRST AID MEASURES**

#### Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

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Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Do not leave victim unattended.	
Most important symptoms and effects, both acute and delayed		
Symptoms	To date no symptoms are known.	
Indication of any immediate medical attention and special treatment needed		
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.	

### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media Suitable Unsuitable	Water spray, Foam, Dry powder, Carbon dioxide (CO2), Sand High volume water jet
Special hazards arising from the substance or mixture	In the event of fire the following may be released:, Hydrogen chloride (HCl), Carbon monoxide (CO), Nitrogen oxides (NOx), Hydrogen cyanide (hydrocyanic acid), Sulphur oxides
Advice for firefighters	
Special protective equipment for firefighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.
Flash point Auto-ignition temperature	> 93.3 °C No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Methods and materials for containment and cleaning up Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Additional advice Use personal protective equipment. Do not allow product to contact non-target plants. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Reference to other sections Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling	Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
Conditions for safe storage,	including any incompatibilities
Requirements for storage areas and containers	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children.

# preferably in a locked storage area. Protect from freezing.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Thiacloprid	111988-49-9	0.34 mg/m3		OES BCS*
		(TWĂ)		

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\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### **Exposure controls**

### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to beige
Physical State	suspension
Odor	very faint
Odour Threshold	No data available
рН	7.0 - 9.0 (5 %) (23 °C) (CIPAC D water (342ppm)) dispersion in water
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	1.18 g/cm <sup>3</sup> (20 °C)
Evaporation rate	No data available
Boiling Point	No data available
Melting / Freezing Point	No data available
Water solubility	dispersible
Minimum Ignition Energy	Not applicable
Decomposition temperature	Not applicable
Partition coefficient: n- octanol/water	No data available
Viscosity	1,000 - 1,200 mPa.s ( 25 °C)

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Flash point	> 93.3 °C
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

### SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	Not applicable
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	No data available
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin contact, Skin Absorption, Inhalation, Ingestion	
Immediate Effects Eye	May cause eye irritation.	
Skin	Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.	
Ingestion	May be fatal if swallowed.	
Inhalation	Harmful if inhaled.	
Information on toxicological effects		
Acute oral toxicity	LD50 (Rat) > 300 - < 500 mg/kg	
Acute inhalation toxicity	LC50 (female Rat) > 1.0 - < 2.2 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.	
	LC50 (male Rat) > 2.2 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.	
Acute dermal toxicity	LD50 (Rat) > 4,000 mg/kg	



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Skin corrosion/irritation	No skin irritation (Rabbit)
Serious eye damage/eye irritation	No eye irritation (Rabbit)
Respiratory or skin sensitisation	Skin: Sensitising (Guinea pig) OECD Test Guideline 406, Magnusson & Kligman test

#### Assessment STOT Specific target organ toxicity - repeated exposure

Thiacloprid did not cause specific target organ toxicity in experimental animal studies.

#### Assessment mutagenicity

Thiacloprid was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Thiacloprid caused at high dose levels an increased incidence of tumours in rats in the following organ(s): uterus, Thyroid.

Thiacloprid caused at high dose levels an increased incidence of tumours in mice in the following organ(s): ovaries. The tumours seen with Thiacloprid were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

#### ACGIH

None.

NTP

None.

IARC

None.

#### OSHA

None.

#### Assessment toxicity to reproduction

Thiacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. Thiacloprid caused difficulties in parturition in rats. The mechanism of action for this effect is not considered to be relevant to man.

#### Assessment developmental toxicity

Thiacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Thiacloprid are related to maternal toxicity.

#### **Further information**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

### **SECTION 12: ECOLOGICAL INFORMATION**

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Toxicity to fish	LC50 (Lepomis macrochirus (Bluegill sunfish)) 80.7 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Daphnia (water flea)) >= 85.1 mg/l Exposure time: 48 h
Toxicity to aquatic plants	IC50 (Desmodesmus subspicatus (green algae)) 96.7 mg/l Exposure time: 72 h
	IC50 (Raphidocelis subcapitata (freshwater green alga)) >100 mg/l Exposure time: 72 h
Biodegradability	Thiacloprid: Not rapidly biodegradable
Кос	Thiacloprid: Koc: 615
Bioaccumulation	Thiacloprid: Does not bioaccumulate.
Mobility in soil	Thiacloprid: Slightly mobile in soils
Environmental precautions	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Drift or runoff from treated areas may adversely affect non-target plants.

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.
Contaminated packaging	Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

### **SECTION 14: TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.



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Freight Classification:

INSECTICIDES OR FUNGICIDES, N.O.I., POISON, OTHER THAN GASES THAT ARE POISONOUS BY INHALATION

### **SECTION 15: REGULATORY INFORMATION**

PCP Registration No. 28429

#### **SECTION 16: OTHER INFORMATION**

#### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49	
ACGIH	US. ACGIH Threshold Limit Values	
ATE	Acute toxicity estimate	
CAS-Nr.	Chemical Abstracts Service number	
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	
EINECS	European inventory of existing commercial substances	
ELINCS	European list of notified chemical substances	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
N.O.S.	Not otherwise specified	
NTP	US. National Toxicology Program (NTP) Report on Carcinogens	
OECD	Organization for Economic Co-operation and Development	
TDG	Transportation of Dangerous Goods	
TWA	Time weighted average	
UN	United Nations	
WHO	World health organisation	
NFPA 704 (National Fire Protection Association):		
Health - 2	Flammability - 1 Instability - 1 Others - none	
HMIS (Hazardous M Health - 2	aterials Identification System, based on the Third Edition Ratings Guide)Flammability - 1Physical Hazard - 1PPE -	

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current Canadian WHMIS standard (WHMIS 2015).

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

#### Revision Date: 11/09/2018

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