

# Safety Data Sheet (SDS) Cydro 480 SC

According to UN GHS 8th Ed

Revision Date: 30/07/2022

First print date: 01/06/2018

Version: 1.1

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

### Product identifier:

Identification as on the label/Trade name: CYDRO 480 SC

Common name: Thiacloprid 480 g/l SC

### Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

Uses advised against: Use only as directed.

### Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Details of the Registration Holder:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

### Emergency telephone numbers:

24 Hour Emergency Number: Bateleur: +27 83 123 3911

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

## SECTION 2. HAZARD IDENTIFICATION

### Classification of the substances or mixture

The mixture is classified according to Regulation (EC) No 1272/2008 EU-GHS/CLP

Hazard classes/Hazard categories	Hazard statement
Acute toxicity oral (Category 4)	H302
Acute toxicity inhalation (Category 4)	H332
STOT SE CNS (Category 3)	H336
Carcinogenicity (Category 2)	H351
Reproductive Toxicity (Category 1B)	H360 fd
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

### Label elements



Hazard pictograms:

Signal Word: Danger

### Hazard Statements:

H302	Harmful if swallowed
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H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360 fd	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**Precautionary Statements:**

P102	Keep out of reach of children
P103	Read label before use
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands, forearms, and face thoroughly after handling
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/ national regulations

**Other hazards:**
**SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**
**Substance/Mixture:** Mixture

**Ingredients:**

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Thiacloprid	111988-49-9	49%	Acute Toxicity Oral (Category 3 ) H301 Acute Toxicity inhalation (Category 4) H332 STOT SE CNS (Category 3) H336 Carcinogenicity (Category 2) H351 Reproductive Toxicity (Category 1) H360fd Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410
Naphthalenesulfonic acid sodium salt	532-02-5	< 5%	Eye Irritation (Category 2) (H319) Skin Irritation (Category 2) (H315) STOT SE (Category 3) (H335)

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Sodium dichloroisocyanurate,	2893-78-9	< 3%	Acute Toxicity (Category 4) (H302) Aquatic Acute 1 (H400) Aquatic Acute 1 (H410) STOT SE 3 (H335) Ox. Sol. 2 (H272) Eye Irritation (Category 2) (H319) Skin corrosion (Category 1B) (H314) Eye Damage (Category 1) (H318) Ox. Liq. 2 (H318)
Propylene glycol	57-55-6	< 5%	Eye Irritation (Category 2) (H319) Aquatic Chronic (Category 1) H410

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4. FIRST AID MEASURES**
**Description of first aid measures:**

**General:** If exposed or concerned, get medical advice.

**In case of inhalation:** If inhaled, remove to fresh air. Treat symptomatically and supportively. Seek medical attention.

**In case of skin contact:** Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if person feels unwell. Wash clothing before reuse.

**In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

**In case of ingestion:** If swallowed, rinse mouth with water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

Loosen tight clothing such as a collar, tie, belt, or waistband.

**Most important symptoms and effects, both acute and delayed:**

If large amounts are ingested, the following symptoms may occur: Nausea, vomiting, diarrhea, salivation, headache, dizziness, Confusion, restlessness, bradycardia, tachycardia, coma, hypotension, respiratory paralysis.

Symptoms and hazards refer to effects observed after intake of significant amounts of the active ingredient(s).

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically. Monitor: respiratory and cardiac functions. Oxygen or artificial respiration if needed. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

**SECTION 5. FIRE FIGHTING MEASURES**
**Extinguisher media:**

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**Small Fire:** Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

**Large Fire:** Foam or water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

**Unsuitable** extinguishing media: Do not use high volume water jet, due to contamination risk.

**Special hazards arising from the mixture:**

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

**Advice for fire-fighters:**

Fire may produce irritating or poisonous vapours, mists, or other products of combustion. Remove spectators from

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surrounding area. Evacuate downwind. Remove container from fire area if possible. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Contain fire control agents for later disposal according to Section 13. Water can be used to cool unaffected containers.

### SECTION 6. ACCIDENTAL RELEASE

#### Personal precautions, protective equipment, and emergency procedures:

**For non-emergency personnel:** Avoid contact with spilled substance or contaminated surfaces. Evacuate the danger area, observe emergency procedures. Use personal protective equipment.

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

#### Environmental precautions:

Stop leak if without risk. Do not touch spilled material. Prevent entry into drains, watercourses, or confined areas; dike if needed. If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations. Dispose in a safe manner in accordance with local/national regulations.

#### Methods for containment and cleaning up:

**For small spills** Contain spilled material if possible. Collect in suitable, labelled containers for disposal. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth.

**For large spills** Prevent entry into drains, watercourses, or confined areas.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in a suitable, labelled container for disposal according to local regulations.

#### Reference to other sections:

See section 1 for emergency contact details

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling:

Read the label before use. Do not handle this until all safety precautions have been read and understood. Use protective clothing. Wash thoroughly after handling. Remove contaminated clothing and wash before reusing. Use adequate ventilation. Avoid direct contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wear full-face mask and eye protection. Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

**Protective measures:** Observe directions on label and instructions for use.

**Advice on general occupational hygiene:** Do not eat drink or smoke when handling this product.

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

Store locked up in the closed original packaging out of reach of children, unauthorised persons, and animals. Store in a dry, cool, well-ventilated area. Keep away from food, drink, and animal feed.

#### Specific end uses:

Use as directed. Use original container.

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**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Control parameters:**
**Occupational exposure limits (OEL):** No information available.

**Biological exposure indices (BEI):** No information available.

**Additional exposure limits under the conditions of use:** No information available

**Exposure control:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

**Appropriate engineering controls:** Provide adequate ventilation, exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protective Equipment**

**Eye/face protection:** Wear chemical goggles or face shield when mixing or applying product.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

**Body protection:** Wear appropriate chemical resistant overalls and rubber boots and rubber gloves. Avoid any skin exposure.

**Respiratory protection:** If product is handled while not enclosed, and if contact may occur: Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance

**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

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

Appearance	Suspension concentrate / Liquid
Colour	Odourless
Odour	No data available
Odour threshold	No data available
pH	6.5-9.0 at 100%
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	>100
Evaporation rate	No data available
Flammability	No data available
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (20°C)	1.16 g/cm <sup>3</sup>
Water solubility (g/l) at 20°C	No data available
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available

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Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage 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:** Strong oxidizing agents, acids, bases, combustible materials.

**Hazardous decomposition products:** No decomposition products expected under normal conditions of use.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Toxicokinetics, metabolism and distribution:** No data available

**Information on toxicological effects:**

**Assessment of acute toxicity:**

Thiacloprid CAS No. 111988-49-9	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat - male)	>1000 mg/kg
Acute Dermal LD50 (rat):	>4000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>2.2 mg/l
Skin irritation/ corrosion (rabbits)	No skin irritation
Eye damage / irritation (rabbits)	No eye irritation
Respiratory or skin sensitization (Guinea pig)	Non sensitising
Germ cell mutagenicity	No adverse effect observed
Carcinogenicity	Suspected human carcinogen
Reproductive toxicity	Suspected of damaging fertility or the unborn child
Specific Target Organ Toxicity STOT single exposure	May cause drowsiness or dizziness
Specific Target Organ Toxicity STOT repeated exposure	Thiacloprid did not cause specific target organ toxicity in experimental animal studies
Aspiration hazard	No data available

Additional information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12. ECOLOGICAL INFORMATION**

Thiacloprid CAS No. 111988-49-9	
<b>Toxicity</b>	
Birds Acute oral LD <sub>50</sub> Dietary LC <sub>50</sub> (8d)	49 mg/kg Japanese Quail; 2716 mg/kg Bobwhite quail 2500 mg/kg Japanese Quail; >5459 mg/kg Bobwhite quail
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr) Algae Toxicity EC <sub>50</sub> (96h) Bee Toxicity LD <sub>50</sub>	30.5 mg/l (rainbow trout) ; 25.2 mg/l (bluegill sunfish) >85.1 mg/l 97 mg/l ( <i>Scenedesmus subspicatus</i> ) 17.32 µg/bee (oral) ; 38.83 µg/bee (contact)
<b>Persistence and degradability</b>	Soil DT50 (6 soils) 7-21 d. soil mobility (6 soils) low to medium. Mean Koc 615 (6 soils)
<b>Bioaccumulation potential</b>	Does not bioaccumulate

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Mobility in soil	Slightly mobile in soils
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**SECTION 13. DISPOSAL CONSIDERATIONS**
**Waste treatment methods:**
**Product:**

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

**Container:**

Refer to container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

**SECTION 14. TRANSPORT INFORMATION**

UN Number	3082
UN proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Thiacloprid 480 g/l)
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

**SECTION 15. REGULATORY INFORMATION**
**Safety, health, and environmental regulations/legislation for the mixture:**

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

**Relevant information regarding restrictions:**

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

**Other National regulations:**

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out?** No

**SECTION 16. OTHER INFORMATION**
**Indication of changes:**

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

**Relevant H statements (number and full text):**

H301-Toxic if swallowed

STOT SE 3 CNS- Specific Target Organ Toxicity Single Exposure (Category 3) : May cause drowsiness or dizziness (Central Nervous System)

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### Training instructions:

Use as indicated on the label, special training may be required for application.

### Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.