



Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name CIPRIAN

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Plant growth regulator

Uses advised against: No additional information available

1.3 Details of the supplier of the safety data sheet:

Company Maxunitech do Brasil Ltda.
Address Endereço: Rua Irmã Pia, n° 422, sala 902, Jaguaré,
CEP: 05335-050, São Paulo/SP.

Information contact Tel: +55 (11) 3714-0044

1.4 Emergency Telephone Number:

0800 110 8270 Pró-Química.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (GHS Rev. 10)

Acute toxicity-oral: Category 5
Acute toxicity-dermal: Category 5
Acute toxicity-Inhalation: not classified
Skin corrosion/irritation: Category 3.
Serious eye damage/Eye irritation: Category 2B.
Respiratory sensitization: Classification impossible.
Skin sensitization: Not classified.
Acute aquatic hazard: Category 3.
Aspiration hazard: Classification impossible.

2.2 Label elements

Labelling according to Regulation (GHS)

Hazard pictograms: None

Signal word: Warning

Hazard statements:

H303 May be harmful if swallowed

H313 May be harmful in contact with skin



H316 Causes mild skin irritation

H320 Causes eye irritation

H402 Harmful to aquatic life

Precautionary statements:

Prevention:

P264+P265 Wash hands thoroughly after handling. Don't touch eyes.

P273 Avoid release to the environment.

Response:

P301+ P317 IF SWALLOWED: Get medical help.

P302 + P317 IF ON SKIN: Get medical help.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P317 If skin irritation occurs: Get medical help.

P337 + P317 If eye irritation persists: Get medical help.

Storage:

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant in accordance with local regulations.

SECTION 3. Composition/information on ingredients

3.1 Substances: The product is a mixture, not a substance.

3.2 Mixtures

Hazardous ingredients

Chemical name	CAS No.	Concentration
Trinexapac-ethyl	95266-40-3	250 g/L
Emulsifying Agent I	ND	35-45 g/L
Emulsifying Agent II	ND	45-55 g/L

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control centre or physician, or going for treatment.

Following inhalation

Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

Following skin contact

Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Following eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

**Following ingestion**

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

Self-protection of the first aider:

First aider: Pay attention to self-protection.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Nonspecific
No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically.

Special treatment: There is no specific antidote available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media:**

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Alcohol-resistant foam or Water spray

Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to health.

5.3 Advice for fire-fighters

Wear full protective clothing and self-contained breathing apparatus.

5.4 Additional information

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions



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Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

For cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Clean contaminated surface thoroughly.

Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

6.4 Reference to other sections

See subsection 8.2. for personal protection.

See section 13 for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

7.3 Specific end uses

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Common name	Exposure Limit	Type	Effect	References
Trinexapac-ethyl	Not established	TLV-TWA	-	ACGIH 2025
		REL-TWA		NIOSH
		PEL-TWA		OSHA
Agente emulsionante I	50 ppm	TLV-TWA	Irr eyes and skin	ACGIH 2025
	50 ppm (150 mg/m ³)	REL-TWA	irritation in the eyes, skin, throat; headache; drowsiness; cracked skin; In Animals: narcosis	NIOSH
	50 ppm (150 mg/m ³)	PEL-TWA		OSHA
Agente emulsionante II	Not established	TLV-TWA	-	ACGIH 2025
		REL-TWA		NIOSH
		PEL-TWA		OSHA



Biological indicators:

Common name	Biological Limit	Type	Time of Collection	Notes	References
Trinexapac-ethyl	Not established	BEI	-	-	ACGIH 2025
Agente emulsionante I	Not established	BEI	-	-	ACGIH 2025
Agente emulsionante II	Not established	BEI	-	-	ACGIH 2025

8.2 Exposure controls

Appropriate engineering controls

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye / Face protection

No special protective equipment required.

Hand protection

Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Material : Nitrile rubber

Break through time : > 480 min

Glove thickness : 0.5 mm

Skin and body protection :

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing

Respiratory protection :

No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Protective measures :

The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

Environmental exposure controls:

Do not discharge to the environment.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Physical state	Liquid
Appearance	transparent.
Color	yellow (2.5GY 9/4 of the Munsell color scale).
Odour	characteristic.
pH	3.77 (1% w/v aqueous solution) at a temperature of $20 \pm 1^\circ\text{C}$.
Melting point/freezing point	No available data
Initial boiling point/boiling range	No available data
Flash point	Did not reach flash point until a temperature of 156°C , when it began to boil.
Evaporation rate	No available data
Flammability	No available data
Lower/upper flammability or explosive limits	No available data
Vapor pressure	No available data
Relative density	No available data
Density	0.9609 g/cm^3 (20°C).
Solubility	Immiscible in both dosages (maximum and minimum) of hexane. In the solvents water and methanol, the test substance is miscible in both doses.
n-octanol/water partition coefficient	No available data
Auto-ignition temperature	No available data
Decomposition temperature	No available data
Viscosity	90 mPa.s at $20.0 \pm 1^\circ\text{C}$.; 63 mPa.s at $40.0 \pm 1^\circ\text{C}$.
Corrosivity	Corrosion rate showed for brass = 0.0015 mm/year , aluminum = 0.0013 mm/year , copper = 0.0012 mm/year , bronze = 0.0012 mm/year and iron = 0.0004 mm/year .
Surface tension	0.0353 N/m (24.9°C).

9.2 Other information:

No other information.

SECTION 10: Stability and reactivity

10.1 Reactivity

There is no data available on the product's reactivity.

10.2 Chemical stability

Stable under normal condition.

10.3 Possibility of hazardous reactions



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Hazardous reactions: No dangerous reaction known under conditions of normal use. Avoid high temperatures, ignition sources, prolonged exposure to direct sunlight and exposure to air with the packaging open.

10.4 Conditions to avoid:

No decomposition if used as directed.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Trinexapac-ethyl

Acute oral toxicity: LD₅₀ for female rats >2000 mg/kg.

Acute dermal toxicity: LD₅₀ for male and female rats >4000 mg/kg.

Acute inhalation toxicity: LC₅₀ for rats >5.334mg/l.

Skin corrosion/irritation: Mild irritating to skin.

Serious eye damage/eye irritation: Mild irritating to eyes.

Skin sensitization: Not a skin sensitizer (guinea pigs).

Respiratory sensitization: no data available.

Chronic toxicity:

Germ cell mutagenicity: the product did not demonstrate mutagenic potential in the reverse gene mutation test in bacteria (Ames test) and did not show mutagenic activity in mouse cells.

Carcinogenicity:

Trinexapac ethyl: not carcinogenic.

Emulsifying agent I: no data available.

Emulsifying agent II: no data available.

Reproductive toxicity:

Trinexapac ethyl: not known to cause reproductive or developmental effects.

Emulsifying agent I: no data available.

Emulsifying agent II: no data available.

Specific target organ systemic toxicity - Single exposure: no data available.

Specific target organ systemic toxicity - Repeated exposure: no data available.

Aspiration hazard: no data available.

SECTION 12: Ecological information

12.1 Toxicity:

Environmental, behavioral effects and impacts of the product:

Ecotoxicity:

Trinexapac ethyl:

Acute toxicity to fish (*Ictalurus punctatus*): LC₅₀ (96h): 35 mg/L.

Acute toxicity to algae (*Pseudokirchneriella subcapitata*): EC₅₀ (72h): 24.5 mg/L.

Acute toxicity to crustaceans (*Daphnia magna*): EC₅₀ (48h): >142.5 mg/L.



Emulsifying agent I: no data available.

Emulsifying agent II:

Acute toxicity to fish: LC50 (96h): >7.33 mg/L.

Acute toxicity to algae (*Desmodesmus subspicatus*): EC₅₀ (72h): 6.61 mg/L.

Acute toxicity to crustaceans (*Daphnia magna*): EC₅₀ (48h): 25 mg/L.

Persistence/Degradability: no data available.

Bioaccumulative potential:

Trinexapac ethyl: an estimated BCF value of 6 suggests low bioaccumulation potential in aquatic organisms.

Emulsifying agent I: no data available.

Emulsifying agent II: an estimated BCF value of 3162 suggests low bioaccumulation potential in aquatic organisms.

Mobility in soil: no data available.

Other adverse effects: no data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Produce: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

ABNT NBR – 14725

Not regulated.

SECTION 15: Regulatory information

Regulations:

US 49 CFR Road

ABNT NBR – 14725

Resolution 5232 – ANTT

IMDG Code



IATA

NOTICE:

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws.

SECTION 16: Other information

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.