

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01

Date: 06/24/2022

Pages: 1/9

### 1 - IDENTIFICATION

GHS Product identifier:	Colosso FC30
Recommended use of the chemical:	Acaricide, mosquito and bernicidal for cattle.
Specific restrictions on use:	There are not known restrictions on use of the product.
Supplier's details:	OURO FINO SAÚDE ANIMAL LTDA.
Address:	Rodovia Anhanguera, SP 330, km 298 - Distrito Industrial CEP: 14140-000, Cravinhos - SP - BR
Phone number(s):	(16) 3518-2000
Emergency phone number:	55 (16) 3518-2000

### 2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Acute Toxicity - Oral - Category 3 Serious eye damage/eye irritation - Category 2A Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic Specific Target Organ Toxicity – Repeated Exposure - Category 1 Hazardous to the Aquatic Environment - Acute Hazard - Category 1 Hazardous to the Aquatic Environment - Chronic Hazard - Category 1
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

#### GHS label elements, including precautionary statements

Pictograms:



Signal word: DANGER

Hazard statement(s):  
 H301 Toxic if swallowed.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H372 Causes damage to the nervous system through prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):  
**PREVENTION:**  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

#### RESPONSE TO EMERGENCY:

P301 + P316 IF SWALLOWED: Get emergency medical help immediately.

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01

Date: 06/24/2022

Pages: 2/9

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P319 Get medical help if you feel unwell.  
P321 Specific treatment.  
P330 Rinse mouth.  
P337 + P317 If eye irritation persists: Get medical help.  
P391 Collect spillage.

**STORAGE:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**DISPOSITION:**

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: The product has no other hazards.

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**MIXTURE**

Components contributing to the hazard:	Chlorpyrifos (CAS 2921-88-2): 25 - 33 %; Cypermethrin (CAS 52315-07-8): 10 - 16.50 %; Fenthion (CAS 55-38-9): 10 - 16.50 % Propan-2-ol (CAS 67-63-0): 10 - 16 %;
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### 4 - FIRST-AID MEASURES

**Routes of exposure**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation effects may not be immediate. Contact immediately a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.

**Skin:** Take off all contaminated clothing. Wash the skin with sufficient amount of water or take a shower. The effects caused by contact with the skin may not be immediate. Contact immediately a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.

**Eye:** Wash the eyes with sufficient amount of water immediately for several minutes, keeping the eyes opened. In case of use of contact lenses, remove them, if possible. Keep washing. Contact a doctor. Bring this SDS.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. The effects by mouth may not be immediate. Contact immediately a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.

**Most important symptoms/effects, acute and delayed:** Causes serious eye irritation with redness and pain. Toxic if swallowed. Causes damage to the nervous system through prolonged or repeated exposure. May cause drowsiness or dizziness.

**Indication of immediate medical attention and special treatment needed, if necessary:** Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected area.

### 5 - FIRE-FIGHTING MEASURES

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01

Date: 06/24/2022

Pages: 3/9

Extinguishing Media:	Appropriate: carbon dioxide (CO <sub>2</sub> ), water mist and powder. Inappropriate: water jet directly.
Specific hazards arising from the chemical:	The combustion of the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide. Vapors may be heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Containers may explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

### 6 - ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel:	Preventively isolate from sources of ignition. Do not smoke. Do not touch damaged containers or spilled material without proper clothing. Avoid inhalation, eye and skin contact.
<b>For emergency responders:</b>	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Method and materials for containment and cleaning up:	Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining product with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place.

### 7 - HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling of the substance or mixture:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

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

Technical measures for prevention of fire and explosion:	It is not expected that the product presents a fire or explosion hazard. Use personal protective equipment as described in Section 8.
Adequate conditions:	Store in a dry, well-ventilated place away from sunlight. Keep the container closed. Keep out of reach of children and pets. Store at 15 to 30 °C (59 to 86 °F).
Packaging compatibilities:	Plastic bottle.
Inadequate packaging materials:	There are not known unsuitable material of the product.

### 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Occupational exposure limit:	The values below apply to workplaces. - Propan-2-ol: OSHA - PEL - TWA: 400 ppm; 980 mg/m <sup>3</sup> ;
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## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01	Date: 06/24/2022	Pages: 4/9
--------------	------------------	------------

NIOSH - REL - TWA: 400 ppm;  
 NIOSH - REL - STEL: 500 ppm;  
 ACGIH - TLV - TWA: 200 ppm;  
 ACGIH - TLV - STEL: 400 ppm.  
 - Chlorpyrifos:  
 ACGIH - TLV - TWA: 0.1 mg/m<sup>3</sup> (IFV).  
 - Fenthion  
 ACGIH - TLV - TWA: 0.05 mg/m<sup>3</sup> (IFV).

IFV: Inhalable fraction and vapor.

**Biological limit:** - Propan-2-ol:  
 ACGIH - BEI: Determinant: Acetone in urine. Sampling Time: End of shift at end of workweek. Index:  
 40.00 mg/L. B, Ns.

B: The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect the interpretation of the results. Such background concentrations are incorporated in the BEI value;  
 Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals;.

**Other limits and values:** - Propan-2-ol:  
 IDLH (NIOSH, 2017): 2000 ppm [10% LEL].

**Appropriate engineering controls:** Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition to the product. Maintain atmospheric concentrations of the constituents of the product below occupational exposure limits indicated.

### Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection:** Safety glass side shields.

**Skin protection:** Closed shoes and suitable protective clothing. Appropriate protective gloves.

**Respiratory protection:** Respiratory protective mask with filter against vapors and mists.

**Thermal hazards:** It does not present thermal hazards.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Aspect:** Liquid, limpid.

**Color:** Amber (orange to brown).

**Odour:** Strong and characteristic (sulfur).

**Melting point/freezing point:** Not available.

**Boiling point or initial boiling point and boiling range:** Not available.

**Flammability:** Not available.

**Lower and upper explosion limit/flammability limit:** Not available.

**Flash point:** Not available.

**Auto-ignition:** Not available.

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01	Date: 06/24/2022	Pages: 5/9
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temperature:	
Decomposition temperature:	Not available.
pH:	Not available.
Kinematic viscosity:	Not available.
Solubility(ies):	Water immiscible. (emulsion form).
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Relative vapour density:	Not available.
Density and/or relative density:	1.08 to 1.12 g/mL.
Particle characteristics:	Not applicable.
Other information:	Not applicable.

### 10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure
Stability:	Stable product under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	There are not known hazardous reactions with the product.
Conditions to avoid:	Elevated temperatures.
Incompatible material:	There are not known incompatible materials with the product.
Hazardous decomposition products:	Thermal decomposition during a fire can emit irritating gases such as carbon monoxide and carbon dioxide.

### 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Toxic if swallowed. ATEmix Oral: 148,56 mg/kg .
	Information regarding to:
	- <u>Chlorpyrifos</u> : LD <sub>50</sub> Oral (mice): 82 mg/kg.
	- <u>Cypermethrin</u> : LD <sub>50</sub> Oral (rats): 303 mg/kg.
	- <u>Fenthion</u> : LD <sub>50</sub> Oral (rats): 180 mg/kg
	- <u>Propan-2-ol</u> : LD <sub>50</sub> Oral (rats): 4700 mg/kg

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01

Date: 06/24/2022

Pages: 6/9

Skin corrosion/irritation:	It is not expected that the product causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation with redness and pain.
Respiratory or skin sensitization:	It is not expected that the product presents respiratory or skin sensitization.
Germ cell mutagenicity:	It is not expected that the product presents germ cell mutagenicity.
Carcinogenicity:	It is not expected that the product presents carcinogenicity.
Reproductive toxicity:	It is not expected that the product presents reproductive toxicity.
STOT - Single exposure:	May cause drowsiness and dizziness. In high concentrations, the product can cause salivation, vomiting, hyperexcitability, tremors and convulsions, dyspnea, weakness, prostration, sweating, abdominal cramps, diarrhea, bradycardia, bronchoconstriction, urinary incontinence and muscle weakness.
STOT - Repeated exposure:	May cause inhibition of cholinesterase in the nervous system, with tingling sensation, numbness, generalized muscle weakness, retinal atrophy, cataract, and corneal and visual nerve mineralization from repeated or prolonged exposure.
Aspiration Hazard:	It is not expected that the product presents aspiration hazard.
Additive effects:	Concomitant administration with mixed-function oxidase inhibitors, neuromuscular blockers and drugs that compete with organophosphates may potentiate the toxic effects of the product.

### 12 - ECOLOGICAL INFORMATION

Toxicity:	<p>Very toxic to aquatic life with long lasting effects.</p> <p>Information regarding to:</p> <ul style="list-style-type: none"> <li>- <u>Chlorpyrifos</u>: EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): 0,000372 mg/L;</li> <li>- <u>Cypermethrin</u>: EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): 0,00027 mg/L;</li> <li>- <u>Fenthion</u>: EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): 0,00144 mg/L.</li> </ul>
Persistence and degradability:	<p>It is expected that the product presents persistence and it is not considered readily biodegradable.</p> <p>Information regarding to:</p> <ul style="list-style-type: none"> <li>- <u>Chlorpyrifos</u>: Half-life: 7 to 56 days.</li> <li>- <u>Cypermethrin</u>: Half-life: 4,1 to 56,4 days.</li> <li>- <u>Fenthion</u>: Half-life: 2,9 to 21,1 days.</li> </ul>
Bioaccumulative potential:	Bioaccumulative potential is not expected in organisms aquatic.
Mobility in soil:	Not determined.
Other adverse effects:	There are not known other environmental effects for this product.

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01

Date: 06/24/2022

Pages: 7/9

### 13 - DISPOSAL CONSIDERATIONS

#### Disposal methods

Treatment and disposal must be evaluated specifically for each product. Federal, state and municipal laws must be consulted. Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

### 14 - TRANSPORT INFORMATION

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	2902
Proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Cypermethrin and Chlorpyrifos)
Primary risk class or division:	6.1
Subsidiary risk class or division:	NA
Packing group:	III
<b>Railway regulations:</b>	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
UN number:	2902
Proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Cypermethrin and Chlorpyrifos)
Primary risk class or division:	6.1
Subsidiary risk class or division:	NA
Packing group:	III
<b>Sea:</b>	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	2902
Proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Cypermethrin and Chlorpyrifos)
Primary risk class or division:	6.1
Subsidiary risk class or division:	NA
Packing group:	III
EmS:	F-A,S-A
Environmental hazards:	The product is considered a marine pollutant.
<b>Air:</b>	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	2902
Proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Cypermethrin and Chlorpyrifos)

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01	Date: 06/24/2022	Pages: 8/9
--------------	------------------	------------

Primary risk class or division:	6.1
Subsidiary risk class or division:	NA
Packing group:	III
Special precautions for user:	Not applicable.

### 15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

### 16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Elaborated June 2022.

#### Change Control:

Version	Elaboration	Changes
01	06/24/2022	Elaboration

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
 ATEmix - Acute Toxicity Estimate of the mixture;  
 BCF - Bioconcentration factor;  
 BEI - Biological Exposure Index;  
 CAS - Chemical Abstracts Service;  
 EC - European Community;  
 EC<sub>50</sub> - Effective Concentration 50%;  
 EEC - European Economic Community;  
 IARC - International Agency for Research on Cancer;  
 IDLH - Immediately Dangerous to Life or Health;  
 K<sub>ow</sub> - Octanol/Water partition coefficient;  
 LC<sub>50</sub> - Lethal Concentration 50%;  
 LD<sub>50</sub> - Lethal Dose 50%;  
 LEL - Lower Explosive Limit;  
 NIOSH - National Institute for Occupational Safety and Health;  
 NOEC - No Observed Effect Concentration;  
 OSHA - Occupational Safety & Health Administration;  
 PEL - Permissible Exposure Limit;  
 REL - Recommended Exposure Limit;  
 STEL - Short Term Exposure Limit;  
 TLV - Threshold Limit Value;  
 TWA - Time Weighted Average;

## SAFETY DATA SHEET

**Product:** Colosso FC30

Revision: 01

Date: 06/24/2022

Pages: 9/9

UN - United Nations.

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REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available at: < <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: Jun. 2022.

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