

SAFETY DATA SHEET: CODA-BOR

1. PRODUCT AND COMPANY IDENTIFICATION	
1.1. Trade / Commercial name	CODA-BOR
1.2. Product code	G0012
1.3. Substance use	Deficiencias corrector chelate
1.4. Manufacturer	SUSTAINABLE AGRO SOLUTIONS S.A.
1.5. Address	Ctra. N-240, Km.110 25100-ALMACELLES (Lleida) ESPAÑA
1.6. Telephone number	(34) 973 74 04 00
1.7. Fax number	(34) 973 74 14 89
1.8. Emergency telephone number	General emergency number: 112 (EU) National toxicology institute: (+34) 915 620 420

2. COMPOSITION / COMPONENTS INFORMATION	
2.1. Common product name	CODA-BOR
2.2. Formal product name	CODA-BOR
2.3. Chemical product family	Complexed Boron.

3. HAZARDS IDENTIFICATION	
3.1. Possible hazards	Skin or eyes irritation
3.2. Possible routes of entry	The contact with the eyes or skin is the most possible exposition. The ingestion is possible. The inhalation of the product is unusual, except in case of use as aerosol.
3.3. Eyes	Irritation.
3.4. Skin	Long exposition to the product may provoke irritation.
3.5. Inhalation	It can cause irritation of the mucous membranes, cough or respiratory difficulties.

4. FIRST AID MEASURES	
4.1. Eyes	Wash with abundant water during 15 minutes. Look for medical attention.
4.2. Skin	Remove clothes and contaminated footwear. Wash the skin with soap and water. If irritation is produced or reddening look for medical attention.
4.3. Inhalation	If symptoms of inhalation exist move the affected person to a zone with fresh air. Look for immediate medical attention if the trouble persists.
4.4. Ingestion	Look for immediate medical attention.

5. FIRE EXTINGUISHING MEDIA	
5.1. Inflammation point	Not inflammable
5.2. Self-ignition temperature	Not applicable
5.3. Extinguishing media	Water or agents adapted for the adjacent fire (Water, foam, dioxide of carbon). The product is not combustible.
5.4. Fire fighting protecting equipment	Use complete protection suit and portable breathing device.

6. ACCIDENTAL RELEASE	
6.1. Personnel cautions	Use adequate protection clothes.
6.2. Environmental cautions	The entry of the material must be avoided to sewers, superficial water or deep infiltrations. Also prevent accidental release in watercourses or aquifers.
6.3. Accidental release	Contain and absorb using land, sand or another inert material. Transfer to container adapted for its recovery or eliminate it as not dangerous material.

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7. HANDLING AND STORAGE

7.1. Handling	Avoid the contact with the eyes, the skin and clothes. There must exist rapid access to shower and eyes wash. Keep the container closed when it is not used.
7.2. Storage	Store in fresh dry place, optimal temperature range between 5 and 20 °C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limits	Not established for this solution.
8.2. Ventilation	Not needed in normal conditions.
8.3. Eyes	Protective glasses must be used when splashes can be produced or when liquid is transferred.
8.4. Skin	Use rubber or neoprene gloves for transference operations or when splashes can be produced . Impermeable suit and gloves must be used always if irritation is produced .
8.5. Breathing	Not needed in normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Form	Liquid
9.2. Color	Light blue
9.3. Interval / Ebullition point °C	98 °C
9.4. Fusion point °C	Not applicable.
9.5. Density (g/cc)	1,34 ± 0,01
9.6. Solubility	Completely soluble in water
9.7. pH	7,7 ± 0,5

10. STABILITY AND REACTIVITY

10.1. Stability	Stable in normal conditions.
10.2. Materials to avoid	

11. TOXICOLOGICAL INFORMATION

11.1. Acute toxicity	Boron complex that is not subject to any toxicological consideration. Though its composition is not tolerable for the human organism, no specific toxicity can be described.
11.2. Chronic toxicity	There do not exist tests documented on its chronic effect, teratogenic or studies on reproduction.
11.3. Metabolites, degradation products or impurities toxic effects	The product characterized by the absence of any type of accumulative residue and / or pollutant
11.4. Metabolic studies in animals	There do not exist studies documented on the effect of the product in the animal metabolism.
11.5. Mixes toxicology	The product is stable, without any toxicological consideration on its managing and / or transport. It is compatible with most of the pesticides, herbicides, fungicides and fertilizers.
11.6. Intoxications signs and symptoms	There is no documentation to evaluate a clinical symptomatology of poisoning for the product. The major risk consists on consuming massively the product of accidental form, the contact to the skin, or the contact with the eyes.

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12. ECOLOGICAL INFORMATION

12.1. Product persistence and alterations in ground water and air	The product is fully water-soluble. It may cause problems to the environment in case of accidental release or excessive dose. There is no persistence in air.
12.2. Terrestrial fauna and flora effects	It reverberates positively on the development of the plants. Nevertheless massive spilt of the product can be converted in fitotoxic. It could only be toxic in massive applications, especially in acid soils.
12.3. Aquatic fauna and flora effects	It is cause of water pollution in case of accidental spilt.
12.4. Product natural degradation process	The boron in the product is easily absorbed by the plants in the complex form so the lixiviation losses or degradation to insoluble forms is minimal.
12.5. Toxicity data to beneficial insects	Low toxicity.

13. CONSIDERATIONS RELATIVE TO THE ELIMINATION

13.1. Product recovery	In case of not being contaminated with other products, recover and re-use as product.
13.2. Disposal	In case of pollution with other materials, the nature and extension of the pollution can need the use of specialized methods of elimination.

14. TRANSPORT RECOMMENDATIONS

14.1. Emergency actuations	Switch the engine off. Don't smoke. Put up signs on the danger with indicators and warn other users of the road. Keep other persons away of the zone of danger. Place people of the side of the wind.
14.2. Releases	Stop with ground or sand and transport to a sure place. Consult an expert. Prevent that the substance penetrates in sewers, basements and ditches. Stop the escapes if this operation does not contain risk. If the product has penetrated in a watercourse in sewers, or it has contaminated the soil or the vegetation notice to the authorities. Recover the wasteful load.
14.3. Fire	Keep the containers cold watering them with pulverized water if they are exposed to the fire.
14.4. First aid	Remove immediately the impregnated clothes and wash the skin affected with soap and abundant water. Request medical aid when someone presents symptoms attributable to inhalation, ingestion or contact with the skin or eyes.

15. REGULATION INFORMATION

CODA-BOR is a boron deficiencies corrector that will have to follow in every country the in force legislation for these products in agricultural use. It is not a dangerous product.

16. MORE INFORMATION

This information is based on the current state of our knowledge and refers to the product in a way that it is supplied. It tries to describe our product under the point of view of the safeties requirements and does not try to guarantee any property or particular characteristic. It does not suppose any guarantee, not even the company assumes the responsibility on the managing or inadequate use of the product.