

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0210.-codafol maximus 8-11-3

Version: 1

Revision date: 03/09/2020



Page 1 of 7

Print date: 9/09/2020

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: codafol maximus 8-11-3
Product Code: G0210.

1.2 Relevant identified uses of the mixture and uses advised against.

Agriculture - For professional use only.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Sustainable Agro Solutions, S.A.U.**
Address: Ctra. N-240, Km.110
City: Almacelles
Province: Lleida
Telephone: 973 74 04 00
Fax: 973 74 14 89
E-mail: info@sas-agri.com
Web: www.sas-agri.com

1.4 Distributed by:

Company: **Seed & Field Services (SI) Ltd.**
Address: 17 Railway Terrace East
City: Rakaia
Country: New Zealand
Telephone: +64 3 302 7317

1.5 Emergency telephone number:

National Poisons Center (New Zealand): 0800 POISON (0800 764 766).

SECTION 2: HAZARDS IDENTIFICATION.

UN 2017: ST/SG/AC.10/30/Rev.7 (GHS)

Skin corrosion / irritation	Category 2	Causes skin irritation
Serious eye damage / eye irritation	Category 2A	Causes serious eye irritation
Reproductive toxicity	Category 2	Suspected of damaging fertility or the unborn child
Specific target organ toxicity (repeated)	Category 2	May cause damage to organs through prolonged or repeated exposure
Aquatic Chronic	Category 3	Harmful to aquatic life with long lasting effects.

Classified as hazardous according to the criteria of the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 – HSR002571 - Fertilisers (Subsidiary Hazard) Group Standard 2017

Not classified as dangerous goods by the criteria of the "New Zealand NZS5433:2012: Transport of Dangerous Goods on Land"



HNSO Classifications: 6.3A, 6.4A, 6.8B, 6.9B, 9.1C

Signal Word:

Warning

Hazard Statements:

H315: Causes skin irritation

H319: Causes serious eye irritation.

H361: Suspected of damaging fertility or the unborn child

H373: May cause damage to organs through prolonged or repeated exposure

H412: Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0210.-codafol maximus 8-11-3

Version: 1

Revision date: 03/09/2020



Page 2 of 7

Print date: 9/09/2020

Prevention Statements:

- P103 Read label before use.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.

Response Statements

- P302+P352 IF ON SKIN: wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see special instructions on the label).
P332+P313 IF SKIN irritation occurs: Get medical advice/attention.
P337+P313 IF eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing.

Storage Statements

- P405 Store locked up.

Disposal Codes

- P501 Dispose of contents/container to a collection point for hazardous or special waste, in accordance with local, regional, national and/or international regulations.

EUH statements: Restricted to professional users.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Chemical Nature:

Ingredient	CAS Number	Content (% w/w)
Urea	57-13-6	10 - 30%
Phosphoric acid	7664-38-2	10 – 30%
Boric Acid	10043-35-3	<10%
Zinc Sulphate	7446-19-7	<10%
Manganese Sulphate	10034-96-5	<10%

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: Call a POISON CENTER/doctor. if you feel unwell. IF experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

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/attention.

Skin contact.

Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. IF ON SKIN: Gently wash with plenty of soap and water. IF SKIN irritation or rash occurs: Get medical advice/attention.

Ingestion.

Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed.

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0210.-codafol maximus 8-11-3

Version: 1

Revision date: 03/09/2020



Page 3 of 7

Print date: 9/09/2020

persons who are unconscious.

SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 Extinguishing media.

Unsuitable extinguishing media.

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 PPE and Emergency Procedures.

Use personal protective equipment (PPE). Clean up spills immediately to prevent further accidents. In the event of a large spill, wear personal protective equipment as specified in Section 8. Clear area of all unprotected personnel.

6.2 Environmental precautions.

Prevent spilled material from entering drains/surface waters/groundwater.

6.3 Methods for cleaning up or taking up.

Sweep or shovel spilled material into suitable containers for reuse or disposal. Avoid generating dust.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

Observe good personal hygiene practices when handling this product. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Do not inhale dust.

7.2 Conditions for safe storage, including any incompatibilities.

Store locked up in a cool, dry, well-ventilated area out of direct sunlight. Keep the container closed. when not in use. Store away from incompatible materials as specified in Section 10.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

Control parameters.

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0210.-codafol maximus 8-11-3



Version: 1

Revision date: 03/09/2020

Page 4 of 7

Print date: 9/09/2020

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
phosphoric acid, orthophosphoric acid	7664-38-2	European Union [1]	Eight hours		1
			Short term		2
		United Kingdom [2]	Eight hours		1
			Short term		2

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
phosphoric acid, orthophosphoric acid CAS No: 7664-38-2 EC No: 231-633-2	DNEL (Workers)	Inhalation, Long-term, Local effects	1 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	0,73 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	2 (mg/m ³)
boric acid CAS No: 10043-35-3 EC No: 233-139-2	DNEL (Workers)	Inhalation, Long-term, Systemic effects	8,3 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Exposure Standards

None established for this product.

Biological Limits

None allocated.

Engineering Controls

Use in a well-ventilated area. If an inhalation risk exists, use mechanical exhaust ventilation. Maintain dust level below the recommended exposure standard for nuisance dust.

PPE

Respiratory protection:

Where an inhalation risk exists, use a Class P1 (particulate) respirator.

Hand protection:

Chemical resistant protective gloves. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time according to EN 374); e.g. nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinylchloride (0.7mm) and other.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Dust-proof goggles.

Body protection:

Coveralls.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wearing of close work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work.

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0210.-codafol maximus 8-11-3

Version: 1

Revision date: 03/09/2020



Page 5 of 7

Print date: 9/09/2020

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: Dark brown

Odour: Characteristic

Odour threshold: N.A./N.A.

pH: 3,2

Melting point: N.A./N.A.

Boiling Point: N.A./N.A.

Flash point: > 60 °C

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: N.A./N.A.

Upper Explosive Limit: N.A./N.A.

Vapour pressure: N.A./N.A.

Vapour density: N.A./N.A.

Relative density: 1,295 g/cm³

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A.

Oxidizing properties: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2. Other information.

Dropping point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A. = Not Available/Not Applicable due to the nature of the product.

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Unstable in contact with:

- Bases.
- Neutralization can occur on contact with bases.

10.3 Conditions to avoid.

Avoid contact with bases.

10.4 Incompatible materials.

Avoid the following materials: Bases.

10.5 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products: Corrosive vapors or gases.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

There are no tested data available on the product.

a) acute toxicity;

Not conclusive data for classification.

b) Aspiration hazard;

Not conclusive data for classification

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0210.-codafol maximus 8-11-3

Version: 1

Revision date: 03/09/2020



Page 6 of 7

Print date: 9/09/2020

- c) skin corrosion/irritation;
Skin corrosion, Category 2: Causes skin irritation
- d) serious eye damage/irritation;
Serious eye damage, Category 2A: Causes serious eye irritation
- e) respiratory or skin sensitisation;
Not conclusive data for classification.
- f) germ cell mutagenicity;
Not conclusive data for classification.
- g) carcinogenicity;
Not conclusive data for classification.
- h) reproductive toxicity;
Category 2: Suspected of damaging fertility or the unborn child
- i) STOT-single exposure;
Not conclusive data for classification.
- j) STOT-repeated exposure;
Category 2: May cause damage to organs through prolonged or repeated exposure
- k) aspiration hazard;
Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
Manganese(II) sulfate monohydrate	Fish	LC50	Fish	130 mg/l (96 h) [1]
		[1] Lewis, M. 1978. Acute Toxicity of Copper, Zinc, and Manganese in Single and Mixed Salt Solutions to Juvenile Longfin Dace, <i>Agosia chrysogaster</i> . J.Fish Biol. 13(6):695-700		
	Aquatic invertebrates	LC50	Crustaceans	17,6 mg/l (48 h) [1]
		[1] Kimball, G. 1978. The Effects of Lesser Known Metals and One Organic to Fathead Minnows (<i>Pimephales promelas</i>) and <i>Daphnia magna</i> . Manuscr., Dep.of Entomol., Fish.and Wildl., Univ.of Minnesota, Minneapolis, MN :88 p.		
CAS No: 10034-96-5 EC No:	Aquatic plants			

12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0210.-codafol maximus 8-11-3

Version: 1

Revision date: 03/09/2020



Page 7 of 7

Print date: 9/09/2020

SECTION 13 DISPOSAL CONSIDERATIONS.

Appropriate and achievable disposal methods, including for packaging must be consistent with the Act and the Disposal Notice and must include special precautions to be taken during disposal and any method of disposal that should not be used.

Disposal Methods

Dispose of at an approved waste site. Refer to waste management authority.

Legislation

Dispose of in accordance with relevant local legislation. Contact a specialist waste company or local regulator for advice.

SECTION 14: TRANSPORT INFORMATION.

Road and Rail Transport:

Not classified as dangerous goods by the criteria of NZS 5433:2012: Transport of Dangerous Goods on Land.

Sea Transport

IMDG: Not classified as dangerous goods under transport regulations

Air Transport

IATA/ICAO: Not classified as dangerous goods under transport regulations

SECTION 15: REGULATORY INFORMATION.

Classified as hazardous according to the criteria of the Hazardous Substances (Classification) Notice 2017 – HSR002571 – Fertilisers (Subsidiary Hazard) Group Standard 2017.

SECTION 16: OTHER INFORMATION.

Additional Information

This SDS was prepared on 03/09/2020 and is version 1.

Date for Next Review of SDS: 03/09/2025.

Key/Legend / Abbreviations (when used)

ACGIH – American Conference of Governmental Industrial Hygienists

ADG Code Australian Dangerous Goods

AICS Australian Inventory of Chemical Substances

CEN European Committee for Standardization

EN - European Standard

EU – European Commission

GHS - Globally Harmonized System of classification and labelling of chemicals

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods Code

LD50 LD stands for Lethal Dose. LD50 is the amount of a substance, given all at once, which causes the death of 50% (one half) of a group of test animals.

HSNO- Hazardous Substances and New Organisms Act 1996

OECD - Organisation for Economic Co-operation and Development

PPE Personal Protective Equipment

REACH – Council on the Registration, Evaluation, Authorization and Restriction of Chemicals

TLV – Threshold Limit Values

TWA – Time-Weighted Average

Report Status

This document is based on the best available information on the date of issue and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for this product. While all due care has been taken to include accurate and up-to-date information, no warranty as to accuracy or completeness is provided. As far as lawfully possible, Sustainable Agro Solutions S.A. accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of reliance on the information contained in this Safety Data Sheet.

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