

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0082 - codasal complex

Version: 5

Revision date: 28/10/2021

Next revision date: 28/10/2026



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Print date: 11/11/2021

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

1.1 Product identifier.

Product Name: codasal complex
Product Code: G0082

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.

Classified as hazardous according to the criteria of the Hazardous Substances (Hazard Classification) Notice 2020 – HSR002571 – Fertilisers (Subsidiary Hazard) Group Standard 2020.

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

Pictograms:



Signal Word:

Danger

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

Acute Toxicity	Category 4	Harmful if swallowed
Serious eye damage / eye irritation	Category 1	Causes serious eye damage
Reproductive toxicity	Category 2	Suspected of damaging fertility or the unborn child

Hazard Statements:

H302 Harmful if swallowed.
H318 Cause serious eye damage.
H361 Suspected of damaging fertility or the unborn child.

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Prevention 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.
P264	Wash exposed parts of body thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.

Response Statements:

P101	If medical advice is needed, have product container or label at hand.
P310	Call a Poison Centre or doctor
P330	Rinse mouth.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor IF you feel unwell.
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.

Storage Statements:

P405	Store locked up.
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Disposal Statements:

P501	Disposal of waste product and containers must be in accord with local bylaws and regulations.
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Chemical Nature:

Ingredient	CAS Number	Content (% w/w)
Calcium nitrate	13477-34-4	30-60%
Sodium lignosulphonate	8061-51-6	10-30%
Boric Acid	10043-35-3	<10%
Magnesium nitrate	13446-18-9	10-30%
Ammonium molybdate	12027-67-7	<1%
Cobalt acetate	6147-53-1	<1%

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.

If inhaled

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.

On skin contact

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

On contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Get medical advice/attention.

On 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.

Corrosive 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.

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 persons who are unconscious.

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SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable; the product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

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

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

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.

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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.

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: 2,6

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

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

Flash point: > 55 °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: 1,4 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.

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, if in contact with bases may generate vapour or gas.

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SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

There are no tested data available on the product.

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Category 2: may damage fertility or the unborn child.

h) STOT-single exposure;

Not conclusive data for classification.

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

No information is available about ecotoxicity

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 should 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.

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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 (Hazard Classification) Notice 2020 – HSR002571 – Fertilisers (Subsidiary Hazard) Group Standard 2020.

SECTION 16: OTHER INFORMATION.

Additional Information

This SDS was prepared on 28/10/2021 and is version 5.

Date for Next Review of SDS: 28/10/2026.

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.