

SAFETY DATA SHEET

(in accordance with NZ EPA regulations)

G0285 - sthenos

Version: 2

Revision date: 17/7/2020



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Print date: August 27, 2020

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

1.1 Product identifier.

Product Name: sthenos
Product Code: G0285

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 3	Causes mild skin irritation
Serious eye damage / eye irritation	Category 2A	Causes serious eye irritation

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".

Pictogram



Signal Word
WARNING

HSNO Classifications: 6.3B, 6.4A

Hazard Statements:

H316: Causes mild skin irritation

H319: Causes serious eye irritation

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Prevention Statements:

P103: Read label before use.

P264: Wash exposed parts of body thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing.

P333+P313: IF SKIN irritation or rash occurs: Get medical advice/attention.

P337+P313: IF eye irritation persists: Get medical advice/attention.

Storage Statements:

Nil

Disposal Statements:

P501: Disposal of waste product and containers must be in accord with local bylaws and regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Chemical Nature:

Identifiers	Name	Concentrate
Index No: 017-013-00-2 CAS No: 10043-52-4 EC No: 233-140-8 Registration No: 01-2119494219-28-XXXX	calcium chloride	1 - 10 %

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

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.

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. Wash exposed parts of the body thoroughly with soap and water after handling. If skin irritation occurs get medical advice/attention.

Ingestion.

Rinse mouth. Do NOT induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or eyes may cause irritation

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, 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.

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

Wear protective gloves/protective clothing/eye protection/face protection.

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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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: White

Odour: Characteristic

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

pH: 6.6

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: 1.085

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: Acids, Bases, Oxidizing agents.

10.3 Possibility of hazardous reactions.

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In certain conditions this may cause a polymerization reaction.

10.4 Conditions to avoid.

Avoid the following conditions: Heating, High temperature, Contact with incompatible materials.

10.5 Incompatible materials.

Avoid the following materials: Acids, Bases, Oxidizing agents.

10.6 Hazardous decomposition products.

Depending on conditions of use, if in contact with bases may generate vapour or gas.

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) skin corrosion/irritation;

Product classified:

Skin irritant, Category 3: Causes mild skin irritation.

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 2A: Causes serious eye irritation.

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;

Not conclusive data for classification.

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 regarding the ecotoxicity of the substances present.

12.2 Persistence and degradability.

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

No information is available on the degradability of the substances present. 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.

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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.

SECTION 13: DISPOSAL CONSIDERATIONS.

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 17/7/2020 and is version 2.

Date for Next Review of SDS: 17/7/2025.

Key/Legend/Abbreviations (when used)

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

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

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

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water.

NOEC: No observed effect concentration.

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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