

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

## SODIAL

Version 5.0

Revision date: 04/11/2022



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

#### 1.1 Product identifier.

Product Name: **SODIAL**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against.

Use: Fertilizer (professional use).

#### 1.3 Details of the supplier of the safety data sheet.

Company: **ATLANTICA AGRICOLA SA**  
Address: C/ CORREDERA Nº33 ENTLO  
City: VILLENA  
Province: ALICANTE  
Telephone: +34 96 5800358  
Fax: +34 96 5804309  
E-mail: sds@atlanticaagricola.com

#### 1.4 Emergency telephone number:

The Cyprus Poison Center Number is **1401** (currently operating 24 hrs/day, 7 days/week)

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the substance or mixture.

In accordance with Regulation (EU) No 1272/2008:

Eye Dam. 1 : Causes serious eye damage.

#### 2.2 Label elements.

##### Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

**Danger**

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

P102 Keep out of reach of children.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor  
P501 Dispose of contents/container to collection point for special waste.

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Contains:  
nitric acid, ammonium calcium salt

### 2.3 Other hazards.

The mixture does not contain substances classified as PBT.

The mixture does not contain substances classified as vPvB.

The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
CAS No: 15245-12-2 EC No: 239-289-5 Registration No: 01-2119493947-16-XXXX	nitric acid, ammonium calcium salt	3 - 25 %	Acute Tox. 4, H302 - Eye Dam. 1, H318	-

(\*) 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.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

#### Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Contact with eyes may cause irreversible damage.

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

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Request immediate medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

### 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.

##### **Suitable extinguishing media:**

Extinguisher powder or CO<sub>2</sub>. 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. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

#### 5.2 Special hazards arising from the substance or mixture.

##### **Special risks.**

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 boots.

### SECTION 6: ACCIDENTAL RELEASE MEASURES.

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

For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Product not classified as hazardous for the environment, avoid spillage as much as possible.

#### 6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

### SECTION 7: HANDLING AND STORAGE.

#### 7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

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

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Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

### 7.3 Specific end use(s).

Fertilizer.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
nitric acid, ammonium calcium salt CAS No: 15245-12-2 EC No: 239-289-5	DNEL (Workers)	Inhalation, Chronic, Systemic effects	98 (mg/m <sup>3</sup> )

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.

### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

<b>Concentration:</b>	100 %		
<b>Breathing protection:</b>			
If the recommended technical measures are observed, no individual protection equipment is necessary.			
<b>Hand protection:</b>			
PPE:	Work gloves.		
Characteristics:	«CE» marking, category I.		
CEN standards:	EN 374-1, EN 374-2, EN 374-3, EN 420		
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.		
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.		
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480
		Material thickness (mm):	0,35
<b>Eye protection:</b>			
PPE:	Protective goggles with built-in frame.		
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.		
CEN standards:	EN 165, EN 166, EN 167, EN 168		
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.		
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.		
<b>Skin protection:</b>			
PPE:	Protective clothing.		
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.		



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CEN standards:	EN 340
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.
PPE:	Work footwear.
Characteristics:	«CE» marking, category II.
CEN standards:	EN ISO 13287, EN 20347
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

#### 9.1 Information on basic physical and chemical properties.

Physical state: Liquid  
Colour: brown.  
Odour: N.A./N.A.  
Odour threshold: N.A./N.A.  
Melting point: N.A./N.A.  
Freezing point: N.A./N.A.  
Boiling point or initial boiling point and boiling range: N.A./N.A.  
Flammability: N.A./N.A.  
Lower explosion limit: N.A./N.A.  
Upper explosion limit: N.A./N.A.  
Flash point: N.A./N.A.  
Auto-ignition temperature: N.A./N.A.  
Decomposition temperature: N.A./N.A.  
pH: 2.5 - 3.5 (100%)  
Kinematic viscosity: N.A./N.A.  
Solubility: 100%.  
Hydrosolubility: N.A./N.A.  
Liposolubility: N.A./N.A.  
Partition coefficient n-octanol/water (log value): N.A./N.A.  
Vapour pressure: N.A./N.A.  
Absolute density: N.A./N.A.  
Relative density: 1.26 g/cc.  
Relative vapour density: N.A./N.A.  
Particle characteristics: N.A./N.A.

N.A./N.A.= Not applicable/Not available due to the nature/properties of the product

#### 9.2 Other information

Viscosity: N.A./N.A.  
Explosive properties: no explosive.  
Oxidizing properties: N.A./N.A.  
Dropping point: N.A./N.A.  
Blink: N.A./N.A.

N.A./N.A.= Not applicable/Not available due to the nature/properties of the product

### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

The product does not present hazards by their reactivity.

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### 10.2 Chemical stability.

Unstable in contact with:

- Bases.

### 10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with bases.

### 10.4 Conditions to avoid.

- Avoid contact with bases.

### 10.5 Incompatible materials.

Avoid the following materials:

- Bases.

### 10.6 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 hazard classes as defined in Regulation (EC) N° 1272/2008.

There are no tested data available on the product.

Splatters in the eyes can cause irritation and reversible damage.

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 2.128 mg/kg

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;

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.

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Toxicological information about the substances present in the composition:

### NITRIC ACID, AMMONIUM CALCIUM SALT (CAS N° 15245-12-2)

#### Acute health effects

##### Acute toxicity.

Specie	Test	Result
Rat	LD50 oral	>300 - <2000 mg/kg
Rat	LD50 dermal	>2000 mg/kg

#### Corrosion and irritation:

Inhalation: No significant effects or critical hazards.  
Ingestion: No significant effects or critical hazards.  
Skin contact: No significant effects or critical hazards.  
Eye contact: Causes serious eye damage.

#### Sensitization

No data available.

#### Chronic toxicity.

Carcinogenic effects	It is not a substance considered by IARC, NTP, OSHA, EU and ACGIH as probable or suspected to be carcinogenic to humans.
Mutagenic	not applicable
Effects on reproduction	not applicable
Specific target organ toxicity (single exposure)	not applicable
Specific target organ toxicity (repeated exposure)	not applicable
Aspiration hazard	not applicable

#### Other effects

Symptoms of overexposure: No data available.  
Target Organs: No specific data.

#### Toxicokinetics (absorption, metabolism, distribution and elimination)

<b>Absorption</b>	It is quickly absorbed
<b>Distribution</b>	Enters the circulation system without passing through the liver tissue.
<b>Metabolism</b>	It is metabolized quickly. It is metabolized in the ions: Ca <sup>2+</sup> , NH <sub>4</sub> <sup>+</sup> , NO <sub>3</sub> <sup>-</sup> .
<b>Elimination</b>	The product and its metabolites are excreted as a whole and do not accumulate in the body.

#### 11.2 Information on other hazards.

##### Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

##### Other information

There is no information available on other adverse health effects.

### SECTION 12: ECOLOGICAL INFORMATION.

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## 12.1 Toxicity.

Information on the ecotoxicity of the substances present:

### **NITRIC ACID, AMMONIUM CALCIUM SALT (CAS N° 15245-12-2)**

#### Ecotoxicidad acuática

Test/type	Specie	Result	exposure time
LC50	Crustacean	>100 mg/l	48 hours
LC50	Fish	447 mg/l	48 hours
EC10	Algae	>100 mg/l	72 hours

#### Concentration with posible effects.

Type	Compartment	Result	Method
PNEC	Fresh wáter	0.45 mg/l	Factor assessment
PNEC	marine environment	0.045 mg/l	Factor assessment

## 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.

## 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 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

## 12.7 Other adverse effects.

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

## **SECTION 13: DISPOSAL CONSIDERATIONS.**

### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.  
Follow the provisions of Directive 2008/98/EC regarding waste management.

## **SECTION 14: TRANSPORT INFORMATION.**



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Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

### 14.1 UN number or ID number.

Transportation is not dangerous.

### 14.2 UN proper shipping name.

Description:

ADR/RID: Not classified as hazardous for transport.

IMDG: Not classified as hazardous for transport.

ICAO/IATA: Not classified as hazardous for transport.

### 14.3 Transport hazard class(es).

Transportation is not dangerous.

### 14.4 Packing group.

Transportation is not dangerous.

### 14.5 Environmental hazards.

Transportation is not dangerous.

Transport by ship, FEM – Emergency sheets (F – Fire, S - Spills): Not applicable.

### 14.6 Special precautions for user.

Transportation is not dangerous.

### 14.7 Maritime transport in bulk according to IMO instruments.

Transportation is not dangerous.

## SECTION 15: REGULATORY INFORMATION.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

This product is regulated by Regulation (EU) 2019/1148, since its composition contains regulated explosives precursors. Any suspicious transaction, disappearances and thefts must be reported to the National Contact Point.

### 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Classification codes:

Acute Tox. 4 : Acute toxicity (Oral), Category 4

Eye Dam. 1 : Serious eye damage, Category 1

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### **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Physical hazards                      On basis of test data  
Health hazards                        Calculation method  
Environmental hazards                Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

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#### **Modifications compared to the previous version:**

- Change of emergency telephone number (SECTION 1.4)
- Modification of classification name (SECTION 2.1)
- Change of "H and P statements" for "Hazard statement" and "Precautionary statement" (SECTION 2.2)
- Modification of 2.3 section (SECTION 2)
- Properties addition SECTION 9.1)
- Addition of 11.2 section (SECTION 11)
- Modification of 12.6 and 12.7 sections (SECTION 12)
- Change of title in 14.1 and 14.7 sections (SECTION 14)

#### Abbreviations and acronyms used:

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.  
PPE:        Personal protection equipment.

#### Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>  
<http://echa.europa.eu/>  
Regulation (EU) 2020/878.  
Regulation (EC) No 1907/2006.  
Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.