

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 4/5/2022 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product form : Mixture : LAINZUFRE Trade name

UFI : E4Q1-D9R7-W5SV-GHX8

Product code 2302

Type of product : Plant protection products

Product group : End product

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

### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only Use of the substance/mixture : Acaricides for plant protection

Fungicide

#### 1.2.2. Uses advised against

No additional information available

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

#### Distributor

LAINCO, S.A. Avinguda Bizet, 8-12 08191 Rubí - Barcelona España

T +34 93 586 20 15 - F +34 93 586 20 16 lainco@lainco.es - http://www.lainco.es

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Barcelona	C/Merced 1 08002 Barcelona	+34 91 562 04 20	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

## Adverse physicochemical, human health and environmental effects

Avoid generation and spreading of dust. Suspension of the dust in the air could produce an explosive atmosphere. Do not breathe dust.

### 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : P261 - Avoid breathing dust, mist.

P262 - Do not get in eyes, on skin, or on clothing.

P280 - Wear protective gloves, protective clothing, face protection.

**EUH-statements** EUH210 - Safety data sheet available on request.

EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use.

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### 2.3. Other hazards

Other hazards which do not result in classification : May cause slight irritation in contact with skin and eyes.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulfur	CAS-No.: 7704-34-9 EC-No.: 231-722-6 EC Index-No.: 016-094-00-1	80 – 90	Skin Irrit. 2, H315
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	1 – 5	Skin Corr. 1A, H314

Specific concentration limits:				
Name Product identifier Specific concentration limits				
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	( 0.5 ≤C < 2) Skin Irrit. 2, H315 ( 0.5 ≤C < 2) Eye Irrit. 2, H319 ( 2 ≤C < 5) Skin Corr. 1B, H314 ( 5 ≤C ≤ 100) Skin Corr. 1A, H314		

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

## 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Move the affected person away from the contaminated area and into the fresh air. Give oxygen or artificial respiration if necessary.

First-aid measures after skin contact

: Take off contaminated clothing and wash it before reuse. Wash skin with plenty of water.

First-aid measures after eye contact

: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical

advice/attention if you feel unwell. Rinse eyes with water as a precaution.

First-aid measures after ingestion

Do NOT induce vomiting. Give nothing or a little water to drink, Use a saturated solution of sodium bicarbonate in order to avoid the disulfhydric formation. Call a poison center or a

doctor if you feel unwell.

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

Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion

- : Irritation of the respiratory tract. Soar throat, cough, headache. Respiratory difficulties.
- Skin irritation and erythema. Itching.
- Eye irritation. Redness.
- Sore throat. Abdominal pain. Other symptoms: Headache, dizziness, nausea, unconsciousness

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

Antidote: If serious systemic effects appear, administer intravenous solution of sodium or Amyl nitrite (Pyridoxine IV 25mg/Kg). Contra indications: Syrup of ipecac.

#### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : In case of fire and/or explosion do not breathe fumes.

Explosion hazard : May explode on heating. Can react violently with heat and ignition sources.

Reactivity in case of fire : In contact with a fire may give off Sulfur derived harmful and flammable gases (H2S,

SOX...).

Hazardous decomposition products in case of fire : Toxic/flammable fumes could accumulate in confined areas. Incomplete combustion

releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

## 5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame. Eliminate all ignition

sources if safe to do so.

Firefighting instructions : Fight fire from safe distance and protected location. Use water spray or fog for cooling

exposed containers. Prevent fire fighting water from entering the environment. Exercise

caution when fighting any chemical fire.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : On exposure to high temperature, may decompose, releasing toxic gases.

#### **SECTION 6: Accidental release measures**

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

General measures : Notify authorities if product enters sewers or public waters. Stop leak if safe to do so. Avoid

contact with skin and eyes. Do not handle until all safety precautions have been read and

understood.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

Measures in case of dust release : Prevent dispersion by moistening spill with water or foam. Sweep or shovel spills into

appropriate container for disposal.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Prevent dispersion by moistening spill with water or foam. Collect spillage.

Methods for cleaning up : Mechanically recover the product. Sweep or shovel spills into appropriate container for

disposal.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

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Hygiene measures

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### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Additional hazards when processed : During the application of the product, the operator will avoid contact with the wet foliage. Do

not enter treated areas until the crop is completely dry.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Keep in a cool, well-ventilated

place away from heat.

Storage conditions : Store at temperatures not exceeding 40°C. Avoid handling which leads to dust formation.

Can form explosive mixtures with air. Store in a well-ventilated place. Keep cool.

Incompatible products : Store separated from chlorates, nitrates and other oxidizing materials. Forms high explosive

mixtures with potassium chlorate and powder zinc. May react violently with oxidants. Do not

mix with oils or alkaline reaction products. Do not mix with EC formulations.

Maximum storage period : < 2 years Storage temperature : < 40 °C

heat and ignition sources : Protect from heat and direct sunlight. No naked flames, sparks, and do not smoke. Avoid

the warming over 32°C during more than 48 hours; it can produce an explosive

decomposition.

Special rules on packaging : Keep only in original container.

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible

materials.

### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

LAINZUFRE	AINZUFRE		
Spain - Occupational Exposure Limits			
Local name	Hidróxido de sodio		
VLA-EC (OEL STEL)	2 mg/m³		
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT		

## 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Face shield.

## Personal protective equipment symbol(s):











### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

Eye protection				
Type Field of application Characteristics Standard				
Safety glasses		With side shields	EN 166	
Full face piece respirator				

### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

## Hand protection:

Protective gloves

Hand protection					
Type Material Permeation Thickness (mm) Penetration Standard					Standard
Reusable gloves					EN ISO 374

## 8.2.2.3. Respiratory protection

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

## Environmental exposure controls:

To protect aquatic organisms/non-target plants/non-target arthropods/insects respect an unsprayed buffer zone of (distance to be specified) to non-agricultural land/surface water bodies. Avoid release to the environment.

### SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : brown Appearance : Granular solid. Odour : slightly sulphurous. Odour threshold : Not available Melting point : Not available Freezing point : Not applicable Boiling point : Not available

Flammability : 207.2 °C Not readily ignited (EEC A.10)

Non flammable.

Explosive properties : Can form explosive mixtures with air.

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Oxidising properties : Does not present oxidising properties.

Explosive limits : Not applicable
Lower explosion limit : 35 g/m³ Sulfur
Upper explosion limit : 400 g/m³ Sulfur
Flash point : Not applicable
Auto-ignition temperature : Not applicable
Decomposition temperature : Not available

pH : 9.5 – 10.5 (1% Aqueous solution)

pH solution : Not available
Viscosity, kinematic : Not applicable
Solubility : Dispersible.

Water: 0.063 mg/l active substance

Organic solvent: Soluble in carbondisulfide. Soluble in aniline. Soluble in ammonia. Slightly

soluble in: alcohols

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available

Density : 0.7 – 0.85 g/ml Bulk density

Relative density : Not available Relative vapour density at 20 °C : Not applicable : Not available Particle size Particle size distribution : Not available Particle shape : Not available Particle aspect ratio : Not available : Not available Particle aggregation state : Not available Particle agglomeration state Particle specific surface area : Not available Particle dustiness : Not available

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

Minimum ignition energy : < 158 mJ

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

Oxidising agents. Store separated from chlorates, nitrates and other oxidizing materials. Forms high explosive mixtures with potassium chlorate and powder zinc.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

LAINZUFRE	
LD50 oral rat	> 2000 mg/kg bodyweight Estimated on the basis of the constituents
LD50 dermal rabbit	> 2000 mg/kg bodyweight Estimated on the basis of the constituents
LC50 Inhalation - Rat (Dust/Mist)	> 1.35 mg/l/4h Estimated on the basis of the constituents

Skin corrosion/irritation : Not classified.

pH: 9.5 - 10.5 (1% Aqueous solution)

Serious eye damage/irritation : Not classified

pH: 9.5 - 10.5 (1% Aqueous solution)

Respiratory or skin sensitisation Not classified (Estimated on the basis of the constituents)

Germ cell mutagenicity Not classified (Based on available data, the classification criteria are not met)

Additional information Sulfur:

Not mutagenic (AMES Test)

: Not classified (Based on available data, the classification criteria are not met) Carcinogenicity Reproductive toxicity Not classified (Based on available data, the classification criteria are not met) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) STOT-repeated exposure Not classified (Based on available data, the classification criteria are not met)

### **LAINZUFRE**

NOAEL (dermal, rat/rabbit, 90 days) 1000 mg/kg bodyweight/day

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Additional information Do not breathe dust

#### **LAINZUFRE**

Viscosity, kinematic Not applicable

## 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not classified

Not rapidly degradable

Additional information : Based on available data, the classification criteria are not met. Risk to aquatic organisms is generally considered as low in the EU review due to the very low solubility of Sulfur in water,

0.063 mg/L, and because there was no effect detected at concentrations that clearly exceeded the solubility in water. Sulfur is not a highly toxic substance to aquatic organisms.

It is expected to be quickly adsorbed on sediments after entering in the aquatic

environment.

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## 12.2. Persistence and degradability

LAINZUFRE	
Additional information	In plants it is transformed by microbial action in various oxidation steps, e.g. sulphate and sulphite, which are soluble and therefore available for absorption by plant. In soil and water, it is oxidized by the action of volatile oxides. Sulfur is an inorganic substance, which does not degrade in the environment. Therefore, metabolites are not expected. Sulfur is considered non-biodegradable. When it enters in a water system, it is expected to be adsorbed onto sediments and subsequently oxidized.

## 12.3. Bioaccumulative potential

AINZUFRE	
Bioaccumulative potential Not bioaccumulable.	
Additional information	Not subject to bioaccumulation in fish or plants.

## 12.4. Mobility in soil

LAINZUFRE	
	Presents zero mobility on the ground, so there is a minimal risk of contaminating groundwater.

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste treatment methods Product/Packaging disposal recommendations

Additional information

- $: \ \, \text{Dispose of contents/container in accordance with licensed collector's sorting instructions}.$
- : Disposal must be done according to official regulations. Avoid release to the environment.
- : Clean up even minor leaks or spills if possible without unnecessary risk. Do not re-use empty containers.

European List of Waste (LoW) code

- : 02 01 09 agrochemical waste other than those mentioned in 02 01 08
  - 15 01 00 packaging (including separately collected municipal packaging waste)

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID			
14.1. UN number or ID n	14.1. UN number or ID number						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			
14.2. UN proper shippin	14.2. UN proper shipping name						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			
14.3. Transport hazard class(es)							
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated			

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ADR	IMDG	IATA	ADN	RID	
14.4. Packing group					
Not regulated	Not regulated Not regulated Not regulated Not regulated				
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information available					

### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

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

Not applicable

### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

## Directive 2012/18/EU (SEVESO III)

Seveso Additional information : The product is not included in any of the categories described in annex I.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### 15.1.2. National regulations

#### Spain

Spanish National Regulations

: Spanish Royal Decree 656/2017 and its modifications: Not included in the scope described in article 2 of the Royal Decree cited above.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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## SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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Data sources

: Supplier's safety documents. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency).

Full text of H- and EUH-statements:	
EUH210	Safety data sheet available on request.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.