

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

#### 1.1. Product identifier

Product form	: Substance
Trade name	: SULPHUR LENTIL TYPE
Chemical name	: sulfur
EC Index-No.	: 016-094-00-1
EC-No.	: 231-722-6
CAS-No.	: 7704-34-9
REACH registration No	: 01-2119487295-27-0031

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use

##### 1.2.2. Uses advised against

No additional information available

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

AZUFRERA Y FERTILIZANTES PALLARES, S.A.  
Av. Europa Parcela 1 – 7 (Pol.Ind. Constanti)  
43120 Constantí (Tarragona) - España  
T + 34 977 524 650 - F + 34 977 524 651  
[afepasa@afepasa.com](mailto:afepasa@afepasa.com) - [www.afepasa.com](http://www.afepasa.com)

#### 1.4. Emergency telephone number

Emergency number : +34 977 524 650  
Office hours, Monday to Friday (08:00-17:00)

### SECTION 2: Hazards identification

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

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

Skin Irrit. 2 H315

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

##### Adverse physicochemical, human health and environmental effects

Causes skin irritation.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H315 - Causes skin irritation.  
Precautionary statements (CLP) : P280 - Wear eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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according to Regulation (EC) No. 1907/2006 (REACH)

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%
sulfur	CAS-No.: 7704-34-9 EC-No.: 231-722-6 EC Index-No.: 016-094-00-1 REACH-no: 01-2119487295-27-0031	99 – 100

#### 3.2. Mixtures

Not applicable

### 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. If you feel unwell, seek medical advice (show the label where possible). Remove the person from the exposure area and remove stained or splashed clothing. Keep the patient at rest. Maintain body temperature. Monitor breathing. If necessary give artificial respiration. If the person is unconscious, lay them on their side with their head lower than the rest of the body and their knees semi-bent. DO NOT LEAVE THE INTOXICATED PERSON ALONE IN ANY CASE.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration as needed.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Ensure adequate flushing of eyes by separating eyelids with the fingers. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Give water to drink if victim completely conscious/alert. If vomiting occur, keep the affected person inclined in order to avoid the vomit entering to the airways.

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

Symptoms/effects	: Contact and / or ingestion of large amounts can cause: From irritation to corrosion of eyes, skin, mucous membranes, respiratory and gastrointestinal tract. Toxic effects at the CNS level, headache, disorders of consciousness, amnesia, tremors and seizures. In repeated contact allergic dermatitis and lung sensitization.
Symptoms/effects after skin contact	: Irritation.

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

Treat symptomatically. In case of ingestion, digestive decontamination according to the state of consciousness. Contra indications. Ipecac syrup. When contacting a physician, take this SDS with you.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Sulphur oxides. Hydrogen sulfide.

### 5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Use water spray or fog for cooling exposed containers.  
Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area. Remove ignition sources.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid dust production.  
Precautions for safe handling : Provide good ventilation in process area to prevent formation of dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking.  
Hygiene measures : Always wash hands after handling the product.

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

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from: Moisture, Sources of ignition, Strong oxidizing agents.  
Incompatible products : Oxidizing agent. Strong bases.  
Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

See section 1.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. National occupational exposure and biological limit values

No additional information available

##### 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

sulfur (7704-34-9)

##### PNEC (Oral)

PNEC oral (secondary poisoning)	0.22 mg/l
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##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize exposure to dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Avoid all unnecessary exposure.

###### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses. Chemical goggles or safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Chemical resistant PVC gloves (to European standard EN 420 or equivalent)

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

Wear appropriate mask. Dust mask with particle filter.

##### 8.2.2.4. Thermal hazards

No additional information available

##### 8.2.3. Environmental exposure controls

###### Environmental exposure controls:

Avoid release to the environment.

###### Other information:

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Colour	: Yellow.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: 115 – 123 °C
Freezing point	: Not applicable
Boiling point	: 444 °C
Flammability	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: 35 g/m <sup>3</sup> S powder
Upper explosive limit (UEL)	: 1400 g/m <sup>3</sup> S powder
Flash point	: 207 °C
Auto-ignition temperature	: 232 °C Test method EU A.16
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble in water. Soluble in carbon disulfide and toluene (Insoluble in toluene: 0.3% max, according to ASTM D-4578).
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour Pressure 20°C	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 2.07 g/cm <sup>3</sup>
Relative density	: Not available
Vapour density	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
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

Other properties : Surface tension : 60.8 dinas/cm (120°C), Moisture : 0.3% max, Heat of combustion : -11030 KJ/kg

### 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 polymerization. No dangerous reactions known under normal conditions of use. Sulfur is a strong reducing agent and it may generate explosions in contact with oxidizing agents. Sulfur combustion produces acid gases such as sulfur dioxide or sulfur mist vapor / hydrogen sulfide in the absence of oxygen.

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### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong bases. Strong oxidizing agents. Strong acids.

### 10.6. Hazardous decomposition products

Sulphur oxides. Hydrogen sulfide. Combustion produces toxic gases.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met.)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met.)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met.)

#### sulfur (7704-34-9)

LD50 oral	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5.43 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)  
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)  
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.)

#### sulfur (7704-34-9)

NOAEL, subchronic, oral, rat	1000 mg/Kg (90 days)
NOAEL, subacute, Dermal, rat	400 mg/Kg (28 days)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)  
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

#### sulfur (7704-34-9)

Viscosity, kinematic	Not applicable
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### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met.)  
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met.)

#### sulfur (7704-34-9)

LC50 - Fish [1]	< 14 ppm
EC50 - Crustacea [1]	> 5000 ppm

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### 12.2. Persistence and degradability

#### sulfur (7704-34-9)

Persistence and degradability

Not established. Once sulfur is released into the environment, is rapidly oxidized by bacteria, other microorganisms or spontaneously by the presence of oxygen, to become organic sulfur compounds. Sulfur is incorporated to the food chain by the action of the microorganism present In water and soil, through oxidation and reduction reactions allowing the assimilation of these compounds by higher plants and animals.

### 12.3. Bioaccumulative potential

#### sulfur (7704-34-9)

Bioaccumulative potential

Elemental sulphur is not soluble in water.

### 12.4. Mobility in soil

#### sulfur (7704-34-9)

Ecology - soil

Sulfur has, generally, a lifecycle and a mobility similar to nitrogen's, characteristic of those nutrients essential for cellular life development. It is not solubilized in water.

### 12.5. Results of PBT and vPvB assessment

#### sulfur (7704-34-9)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Product/Packaging disposal recommendations : Dispose of contents/container to a hazardous or special waste collection point.  
Additional information : The use of incinerators is not recommended due to the occurrence of SO<sub>2</sub> during the combustion, toxic to human and environment.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

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

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

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ADR	IMDG	IATA	ADN	RID
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
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

No REACH Annex XVII restrictions

sulfur is not on the REACH Candidate List

sulfur is not on the REACH Annex XIV List

SULPHUR LENTIL TYPE is not 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.

SULPHUR LENTIL TYPE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format according to COMMISSION REGULATION (EU) 2020/878	Modified	
	Supersedes	Modified	

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

### Indication of changes

Section	Changed item	Change	Comments
	Revision date	Modified	
	Issue date	Modified	
1	Identification of the substance/mixture and of the company/undertaking	Modified	
16	Other information	Modified	

### 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
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Data sources : 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. SDS EU format according to COMMISSION REGULATION (EU) 2020/878.

Other information : Refer to the safety data sheet before handling or disposing.

### Full text of H- and EUH-statements

Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.

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.