



AFEPASA GREENHOUSE SULPHUR TABLETS

SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

Date of issue: 03/12/2017

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Supersedes:

Version: 1

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

1.1. Product identifier

Product form: Active substance
Trade name: AFEPASA GREENHOUSE SULPHUR TABLETS

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
Use of the substance/mixture: Use only as a fungicide and acaricide for agriculture and horticulture in accordance with the product label.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

AZUFREIRA Y FERTILIZANTES PALLARES, S.A.U.
Av. Europa parcela 1 – 7 (Polígono Industrial Constanti)
43120 CONSTANTÍ – TARRAGONA - SPAIN
TEL: + 34 977 524 650 FAX: + 34 977 524 651
afepasa@afepasa.com - www.afepasa.com

1.4. Emergency telephone number

Emergency number: +34 977 524 650 (Monday to Friday from 08.00 – 18.00).

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 H-statements: see section 16

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms (CLP)



GHS07

Warning

Signal word (CLP):

Hazard statements (CLP):

Precautionary statements (CLP):

H315: Causes skin irritation

P264: Wash hands, forearms and face thoroughly after handling

P280: Wear protective gloves

P302+352: IF ON SKIN: Wash with plenty of water and soap.

EUH statements:

EUH401: To avoid risks to human health and the environment; comply with the instructions for use.

Extra phrases:

Do not contaminate water with the product or its container

2.3. Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008
Sulphur	CAS No 7704-34-9 EC No # 231-722-6 EC Index No 016-094-00-1 REACH No 01-2119487295-27	≥99.9	Skin irrit. 2, H315

Full text of H-phrases: see section 16

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3.2. Mixture

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).
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 persist.
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 occurs, 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/injuries after skin contact: Causes skin irritation

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

When contacting a physician, take this SDS with you.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media: do not use jet streams

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire Sulphur oxides. Hydrogen sulphur.

5.3. Advice for firefighters

Firefighting instructions:

Evacuate area. Use spray water or fog for cooling exposed containers. Exercise caution when fighting any Chemical fire. Prevent fire-fighting water from entering 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

Evacuate unnecessary personnel.

6.1.2. For emergency personnel

Protective equipment:

Equip cleanup crew with proper protection. 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. Remove ignition sources.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product 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. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 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:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Wear protective equipment. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition – No smoking.

Hygiene measures:

Wash hands and forearms thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep only in the original container in a cool, well ventilated place away from: moisture, sources of ignition, strong oxidizing agents. Keep container closed when not in use.

Incompatible products:

Oxidizing agents, strong bases.

Incompatible materials:

Sources of ignition, direct sunlight.

7.3. Specific end uses

No additional information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Sulphur (7704-34-9)	
PNEC (Oral)	
PNEC oral (secondary poisoning)	0,22 mg/l

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure

Materials for protective clothing:

Wear suitable coveralls to prevent exposure to skin

Hand protection:

Protective gloves

Eye protection:

N/A

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

N/A.



Other information:

Do not eat, drink or smoke during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Solid
Color	Yellow
Odor	Characteristic
pH	No data available
Relative evaporation rate (butyl acetate =1)	No data available
Melting point/freezing point	115-123° C
Initial boiling point and boiling range	444° Ce
Flash point	207° C
Auto-ignition temperature	232°C
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	1,2-1,4 g/cm ³
Solubility	Insoluble in water
Log Pow	No data available

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Viscosity, kinematic

No data available

Viscosity, dynamic

No data available

Explosive properties

Not explosive (EEC MT A14)

Oxidizing properties

No data available

Explosive limits

Lower explosive limit: 35 g/m³ (powder S) Upper explosive limit: 1400 g/m³ (S powder)

9.2. Additional information

Surface tension

60.8 dynes/cm at 120°C

Water solubility

Insoluble

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. Sulphur is a strong reducing agent and it may generate explosions in contact with oxidizing agents. Acid gasses, like sulphur dioxide or sulphur steam mist, may be produced during sulphur combustion in the absence of oxygen.

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

Oxidising agents. Strong bases. Strong acids.

10.6. Hazardous decomposition products

Sulphur oxides. Hydrogen sulfide. Combustion produces toxic gases.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Not classified

Sulphur (7704-34-9)

LD50 oral	>2000 mg/kg
LD50 dermal rat	>2000 mg/kg
LC50 inhalation rat (dust/mist– mg/l/4h)	5,43 mg/l/4h

Skin corrosion/irritation : Causes skin irritation

Serious eye damage/irritation : Not classified

Based on the available data, the classification criteria are not met.

Respiratory or skin sensitization: Not classified

Based on the available data, the classification criteria are not met.

Germ cell mutagenicity: Not classified

Based on the available data, the classification criteria are not met.

Carcinogenicity: Not classified

Based on the available data, the classification criteria are not met

Reproductive toxicity: Not classified

Based on the available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) Not classified

Based on the available data, the classification criteria are not met.

Sulphur (7704-34-9)

NOAEL, sub chronic, oral, rat	1000 mg/kg (90 days)
NOAEL, subacute, dermal, rat	400 mg/kg (28 days)

Specific target organ toxicity (repeated exposure) Not classified.

Based on the available data, the classification criteria are not met.

Aspiration hazard: Not classified

Based on the available data, the classification criteria are not met.

Potential adverse human health effects and symptoms Based on the available data, the classification criteria are not met

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SECTION 12. ECOLOGICAL INFORMATION**12.1. Toxicity****Sulphur (7704-34-9)**

LC50 fish	< 14 ppm
EC50 Daphnia	> 5000 ppm

12.2. Persistence and degradability**Sulphur (7704-34-9)**

Persistence and degradability	Not established
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12.3 Bioaccumulative potential**Sulphur (7704-34-9)**

Bioaccumulative potential	Not established
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12.4. Mobility in soil**Sulphur (7704-34-9)**

Ecology - soil	Sulphur has, generally, a lifecycle and mobility similar to nitrogen's, characteristic of those nutrients essential for cellular life development. It is not solubilized in water.
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12.5. Results of PBT and vPvB assessment**Sulphur (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. Other adverse effects

Additional information: Avoid release into the environment

SECTION 13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point.

Additional information: The use of incinerators is not recommended due to the occurrence of SO₂ during the combustion, toxic to human and environment.

Ecology- waste materials: Avoid release into the environment

SECTION 14. TRANSPORT INFORMATION

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
14.2. UN proper shipping name				
Transport document description				
14.3. Transport hazard class(es)				
14.4. Packing group				
14.5. Environmental hazards				
Dangerous for the environment: NO	Dangerous for the environment: NO Marine pollutant: NO	Dangerous for the environment: NO	Dangerous for the environment: NO	Dangerous for the environment: NO
No supplementary information available				

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14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No applicable

SECTION 15. REGULATORY INFORMATION

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

15.1.1. EU Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) N° 1907/2006 :

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) n° 1272/2008: Hazard classes 3.1. to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Sulphur

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

Sulphur

SECTION 16. OTHER INFORMATION

Data sources:

REGULATION (EC) N° 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (CE) N° 1907/2006.

Other information:

None

Full text of H- and EUH-phrases:

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

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

Skin irrit. 2	H315	Calculation method
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SDS EU (REACH Annex II)

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.