

## BioSulfur S

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

#### 1.1 - Product identifier

Trade name/designation Biosulfur S

Chemical name

Product-type Mixture

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

Relevant identified uses - Fertilizer

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

Ceradis Crop Protection B.V.  
Agro Business Park 10  
6708PW Wageningen Netherlands  
Telephone : +31 317 843 791  
Website <https://ceradis.com/>

#### 1.4 - Emergency telephone number

### SECTION 2: Hazards identification

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

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

Skin Irrit. 2	Irritation, Category 2
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#### 2.2 - Label elements

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

Signal word : Warning

Hazard pictograms



Hazard statements

H315	Causes skin irritation
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Precautionary statements

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see information on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

EUH-phrases

EUH208	Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol (126-86-3) . May produce an allergic reaction
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#### 2.3 - Other hazards

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### SECTION 3: Composition / information on ingredients

#### 3.1 - Substances

Not applicable

#### 3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
sulfur	CAS No. : 7704-34-9 Index No. : 016-094-00-1 EC No. : 231-722-6	> 25 - < 50	Skin Irrit. 2 - H315	Not applicable
ALKYLATED NAPHTHALENE SULFONATE SODIUM SALT	CAS No. : 68425-94-5 Index No. : EC No. :	> 1 - < 5	Eye Irrit. 2 - H319	Not applicable
ethanediol	CAS No. : 107-21-1 Index No. : 603-027-00-1 EC No. : 203-473-3	> 0,1 - < 1	Acute Tox. 4 Oral - H302 STOT RE 2 - H373	Not applicable
2,4,7,9-tetramethyldec-5-yne-4,7-diol	CAS No. : 126-86-3 Index No. : EC No. : 204-809-1	> 0,01 - < 0,1	Aquatic Chronic 3 - H412 Eye Dam. 1 - H318 Skin Sens. 1 - H317	Not applicable
bronopol (INN), 2-bromo-2-nitropropane-1,3-diol	CAS No. : 52-51-7 Index No. : 603-085-00-8 EC No. : 200-143-0	> 0,01 - < 0,05	Acute Tox. 4 Dermal - H312 Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Eye Dam. 1 - H318 Skin Irrit. 2 - H315 STOT SE 3 (H335) - H335	M-factor: 10 / 10

### SECTION 4: First aid measures

#### 4.1 - Description of first aid measures

##### Following inhalation

- No special measures are necessary.
- Provide fresh air.

##### Following skin contact

- After contact with skin, wash immediately with plenty of water and soap.
- In case of skin irritation, consult a physician.

##### After eye contact

- Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

##### After ingestion

- Rinse mouth thoroughly with water.
- Do NOT induce vomiting.

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

##### Symptoms and effects - Following inhalation

- No information available.

##### Symptoms and effects - Following skin contact

- Causes skin irritation.

##### Symptoms and effects - After eye contact

- No information available.

##### Symptoms and effects - After ingestion

- No information available.

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

- Treat symptomatically.

### SECTION 5: Firefighting measures

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### 5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	<ul style="list-style-type: none"><li>- ABC-powder</li><li>- Carbon dioxide (CO2)</li><li>- Foam</li><li>- Extinguishing powder</li></ul>
<u>Unsuitable extinguishing media</u>	<ul style="list-style-type: none"><li>- Full water jet</li></ul>

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

<u>Special hazards arising from the substance or mixture</u>	<ul style="list-style-type: none"><li>- No information available.</li></ul>
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### 5.3 - Advice for firefighters

<ul style="list-style-type: none"><li>- Co-ordinate fire-fighting measures to the fire surroundings.</li></ul>
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## SECTION 6: Accidental release measures

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

<u>For non-emergency personnel</u>	<ul style="list-style-type: none"><li>- Use personal protection equipment.</li></ul>
<u>For emergency responders</u>	<ul style="list-style-type: none"><li>- No information available.</li></ul>

### 6.2 - Environmental precautions

<ul style="list-style-type: none"><li>- No information available.</li></ul>
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### 6.3 - Methods and material for containment and cleaning up

<u>Methods and material for containment</u>	<ul style="list-style-type: none"><li>- No information available.</li></ul>
<u>Methods and material for cleaning up</u>	<ul style="list-style-type: none"><li>- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).</li><li>- Wash with plenty of water.</li></ul>
<u>Inappropriate techniques</u>	<ul style="list-style-type: none"><li>- No information available.</li></ul>

### 6.4 - Reference to other sections

<ul style="list-style-type: none"><li>- Disposal: see section 13</li><li>- Personal protection equipment: see section 8</li></ul>
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## SECTION 7: Handling and storage

### 7.1 - Precautions for safe handling

<u>Recommendation</u>	<ul style="list-style-type: none"><li>- Avoid: Skin contact</li><li>- It is recommended to design all work processes always so that the following is excluded: Skin contact</li></ul>
<u>Advices on general occupational hygiene</u>	<ul style="list-style-type: none"><li>- No information available.</li></ul>

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

<ul style="list-style-type: none"><li>- No information available.</li></ul>
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### 7.3 - Specific end use(s)

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### SECTION 8: Exposure controls/personal protection

#### 8.1 - Control parameters

#### 8.2 - Exposure controls

Appropriate engineering controls - No information available.

Individual protection measures, such as personal protective equipment - Suitable protective clothing: lab coat



- Tested protective gloves must be worn



- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Barrier creams are not substitutes for body protection.

### SECTION 9: Physical and chemical properties

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

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	whitish	<u>Odour</u>	characteristic
Odour threshold	No data available		
pH	8,8		
Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	No data available		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	No data available		
Upper explosion limit	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Relative density	No data available		
Density	1,41 kg/l		
Solubility (Water)	No data available		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC	No data available		
Auto-ignition temperature	No data available		

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Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

### Particle characteristics

Particle size	No data available
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### 9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

## SECTION 10: Stability and reactivity

### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

### 10.4 - Conditions to avoid

- No information available.

### 10.5 - Incompatible materials

- No information available.

### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

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

Skin corrosion/irritation - Irritation, Category 2 - Causes skin irritation

- Irritating to skin.

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<u>Serious eye damage/eye irritation</u>	- Not classified
<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Not classified
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

### 11.2 - Information on other hazards

## SECTION 12: Ecological information

### 12.1 - Toxicity

#### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

### 12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

### 12.4 - Mobility in soil

- No information available.

### 12.5 - Results of PBT and vPvB assessment

### 12.6 - Endocrine disrupting properties

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### 12.7 - Other adverse effects

- No information available.

## SECTION 13: Disposal considerations

### 13.1 - Waste treatment methods

Waste treatment methods - Dispose of waste according to applicable legislation.

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - No information available.

## SECTION 14: Transport information

### 14.1 - UN number or ID number

Not applicable

### 14.2 - UN proper shipping name

Not applicable

### 14.3 - Transport hazard class(es)

Not applicable

### 14.4 - Packing group

Not applicable

### 14.5 - Environmental hazards

Not applicable

### 14.6 - Special precautions for user

Not applicable

### 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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

### 15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

## SECTION 16: Other information

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### SDS versions

Version	Issue date	Author	Description of the amendments
1	14/12/2022		

### Texts of the regulatory sentences

Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs or state all organs affected, if known through prolonged or repeated exposure - state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
Skin Irrit. 2	Irritation, Category 2
Skin Sens. 1	Skin sensitization - Category 1
STOT RE 2	STOT-repeated exposure - Category 2
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)

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