

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S

Version: 5

Revision date: 06/11/2017



Page 1 of 9

Print date: 13/11/2017

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

1.1 Product identifier.

Product Name: SULFUR MICRONIZED -S
Product Code: 548
Chemical Name: sulfur
Index No: 016-094-00-1
CAS No: 7704-34-9
EC No: 231-722-6
Registration No: 01-2119487295-27-XXXX

1.2 Relevant identified uses of the substance and uses advised against.

Manufacture of matches, pyrotechnics, explosives, oxidant in the chemical industry.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **NITROPARIS S. L.**
Address: POL. IND. LA MINA
City: 12520 - NULES
Province: (Castellón) ESPAÑA
Telephone: TEL.+34 964 67 39 27
Fax: +34 964 67 49 84
E-mail: info@nitroparis.com
Web: www.nitroparis.com

1.4 Emergency telephone number: +34 964 67 39 27 (Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance.

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

Skin Irrit. 2 : Causes skin irritation.

2.2 Label elements.

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

Pictograms:



Signal Word:

Warning

H statements:

H315 Causes skin irritation.

P statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P332+P313 If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards.

The product may have the following additional risks:

Dust explosion hazards.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S

Version: 5

Revision date: 06/11/2017



Page 2 of 9

Print date: 13/11/2017

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Mono-constituent.

Chemical Name:	sulfur
Index No:	016-094-00-1
CAS No:	7704-34-9
EC No:	231-722-6
Registration No:	01-2119487295-27-XXXX

3.2 Mixtures.

Not Applicable.

SECTION 4: FIRST AID MEASURES.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

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.

Remove contact lenses, if present and if it is easy to do. 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.

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. 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 CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. You can also use sand or fog jet.

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.

Special risks.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S

Version: 5

Revision date: 06/11/2017



Page 3 of 9

Print date: 13/11/2017

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health. The dust can form an explosive mixture with air.

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.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

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. Never use pressure to empty the containers. They are not pressure-resistant containers.

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

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

- Used in closed system
- Do not use tools / tools that can cause sparks.
- When transferring between containers, apply the earthing using conductive material.
- Keep away from heat and sources of ignition.
- Keep away from incompatible products.
- Use inert gas for pneumatic transport or handling of the product

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° 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).- Store in original container.

- Store in a well ventilated place.
- Store in a dry place.
- Store in properly labeled containers.
- Keep the container closed.
- Keep away from sources of heat, sparks, open flame or hot surfaces.
- No Smoking.
- Avoid dust formation.
- Take measures to prevent the accumulation of electrostatic discharge.
- Ensure that all equipment is earthed and grounded before commencing the transfer operations.
- Keep away from incompatible products.

Packing material

Appropriate material

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S

Version: 5

Revision date: 06/11/2017



Page 4 of 9

Print date: 13/11/2017

- Paper
- Paper + PE cover.

7.3 Specific end use(s).

Not available.

For further information, please contact: Supplier

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.

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.

Concentration:	100 %		
Uses:	Manufacture of matches, pyrotechnics, explosives, oxidant in the chemical industry.		
Breathing protection:			
PPE:	Filter mask for protection against gases and particles.		
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.		
CEN standards:	EN 136, EN 140, EN 405		
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor. Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.		
Observations:			
Filter Type needed:	A2		
Hand protection:			
PPE:	Protective gloves.		
Characteristics:	«CE» marking, category II.		
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
Eye protection:			
PPE:	Protective goggles with built-in frame.		
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against splashing liquid, 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.		
Skin protection:			
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.		
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.		

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S



Version: 5

Revision date: 06/11/2017

Page 5 of 9

Print date: 13/11/2017

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.

Appearance: N.A./N.A.

Colour: yellow

Odour: Sulfurous

Odour threshold: n.a

pH: n.a

Melting point: 113-119 °C

Boiling Point: 444,67 °C

Flash point: 218 °C

Evaporation rate: n.a

Inflammability (solid, gas): Combustible material

Lower Explosive Limit: 0.17 % (v)

Upper Explosive Limit: 6.83% (v)

Vapour pressure: <0.01 hPa, at 20 °C

Vapour density: n.a

Relative density: 2.07 g/cm³

Solubility: Slightly soluble, water, alcohol, ether

Liposolubility: n.a

Hydrosolubility: <1 mg / l, at 20 °C (Water)

Partition coefficient (n-octanol/water): n.a

Auto-ignition temperature: The study is scientifically unjustified °C

Decomposition temperature: >250 °C

Viscosity: The study is scientifically unjustified

Explosive properties: Not explosive. Risk of explosion of dust.

Oxidizing properties: Non-oxidising

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: n.a

Blind: n.a

Kinematic viscosity: The study is scientifically unjustified

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

- No data available

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

- The powder may form an explosive mixture with air.

10.4 Conditions to avoid.

- Keep away from sources of heat, sparks, open flame or hot surfaces.

- No Smoking

10.5 Incompatible materials.

- Strong bases, Oxidants, Amines, Light metals, Alkali metals, Halogenated compounds, Peroxides, Sulphides

10.6 Hazardous decomposition products.

- Sulfur anhydride

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S

Version: 5

Revision date: 06/11/2017



Page 6 of 9

Print date: 13/11/2017

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information.

Name	Acute toxicity			
	Type	Test	Kind	Value
sulfur	Oral	DL50	Rat	>2000 mg/ Kg
	Dermal	DL50	Rabbit	>2000 mg/ kg
	Inhalation	CL50	Rat	>5.43 g/m3 (4h)

A) acute toxicity;

Non-conclusive data for classification.

B) skin corrosion or irritation;

Rated Product:

Irritant Skin, Category 2: Causes skin irritation.

- Rabbit, Skin Irritation

C) serious eye damage or eye irritation;

Non-conclusive data for classification.

- Rabbit, No eye irritation

D) respiratory or skin sensitization;

Non-conclusive data for classification.

- Guinea pig, Does not cause sensitization.

E) germ cell mutagenicity;

Non-conclusive data for classification.

- In vitro tests showed no mutagenic effects

- In vivo tests showed no mutagenic effects

F) carcinogenicity;

Non-conclusive data for classification.

- The study is scientifically unjustified

G) reproductive toxicity;

Non-conclusive data for classification.

- The study is scientifically unjustified

(H) specific organ toxicity (STOT) - single exposure;

Non-conclusive data for classification.

- Notes: no data available

(I) specific organ toxicity (STOT) - repeated exposure;

Non-conclusive data for classification.

- Oral, 90 d, rats, 1000 mg / kg, Notes: NOAEL

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S

Version: 5

Revision date: 06/11/2017



Page 7 of 9

Print date: 13/11/2017

- Cutaneous, 28 d, rats, 1000 mg / kg, Notes: NOAEL

J) aspiration hazard;

Non-conclusive data for classification.

- no data available

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
sulfur	Fish	NOEC	Oncorhynchus mykiss	>5 µg/l (96h) [1]
			[1] fishes	
	Aquatic invertebrates	NOEC	Daphnia magna	>5 µg/l (48h) [1]
		NOEC	Daphnia magna,	>100 mg/l (21 Días) [2]
			[1] crustaceans	
			[2] crustaceans	
CAS No: 7704-34-9 EC No: 231-722-6	Aquatic plants	NOEC	Desmodesmus subspicatus	<1.3 mg/l (72h) [1]
			[1] Inhibition of growth	

12.2 Persistence and degradability.

There is no information available on the degradability of the substances present.

No information is available regarding the degradability. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation.

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 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.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S



Version: 5

Revision date: 06/11/2017

Page 8 of 9

Print date: 13/11/2017

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN number.

UN No: UN1350

14.2 UN proper shipping name.

Description:

ADR: UN 1350, SULPHUR, 4.1, PG III, (E)

IMDG: UN 1350, SULPHUR, 4.1, PG III

ICAO/IATA: UN 1350, SULPHUR, 4.1, PG III

14.3 Transport hazard class(es).

Class(es): 4.1

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

Labels: 4.1



Hazard number: 40

ADR LQ: 5 kg

IMDG LQ: 0

ICAO LQ: 10 kg

Provisions concerning carriage in bulk ADR:

VC1 Carriage in bulk in sheeted vehicles, sheeted containers or sheeted bulk containers is permitted.

VC2 Carriage in bulk in closed vehicles, closed containers or closed bulk containers is permitted.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-G

Proceed in accordance with point 6.

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

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

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

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.

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

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.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

548- SULFUR MICRONIZED -S



Version: 5
Revision date: 06/11/2017

Page 9 of 9
Print date: 13/11/2017

15.2 Chemical safety assessment.

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

SECTION 16: OTHER INFORMATION.

Classification codes:

Skin Irrit. 2 : Skin irritant, Category 2

Sections changed compared with the previous version:

1,2,3,5,8,14,16

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

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CEN: European Committee for Standardization.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

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) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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.