

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sulfur, purified by sublimation, 500 g

Print date: 15.04.2015

Product code: 9991878

Page 1 of 7

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Sulfur, purified by sublimation, 500 g

CAS No: 7704-34-9
Index No: 016-094-00-1
EC No: 231-722-6

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet**Seller**

Company name: CONATEX-DIDACTIC Lehrmittel GmbH
Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH
Street: Im Stadtwald, Gebäude A1.2
Place: D-66123 Saarbrücken
Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232
e-mail: michael.bauer@carbolution-chemicals.de
Internet: www.carbolution-chemicals.de

1.4. Emergency telephone number: +49 (0)681 302-71232**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: Xi - Irritant
R phrases:
Irritating to skin.

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

Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Hazard Statements:
Causes skin irritation.

2.2. Label elements

Signal word: Warning
Pictograms: GHS07

**Hazard statements**

H315 Causes skin irritation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sulfur, purified by sublimation, 500 g

Print date: 15.04.2015

Product code: 9991878

Page 2 of 7

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: S
Molecular weight: 32,07

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-722-6	sulfur	100 %
7704-34-9	Xi - Irritant R38	
016-094-00-1	Skin Irrit. 2; H315	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sulfur, purified by sublimation, 500 g

Print date: 15.04.2015

Product code: 9991878

Page 3 of 7

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream.

After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	light yellow
Odour:	No data available

Test method

pH-Value:	No data available
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Changes in the physical state

Melting point:	118 °C
Initial boiling point and boiling range:	444,7 °C
Sublimation point:	No data available
Softening point:	No data available

Safety Data Sheet

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Sulfur, purified by sublimation, 500 g

Print date: 15.04.2015

Product code: 9991878

Page 4 of 7

Flash point: 207 °C

Flammability

Solid: No data available

Gas: No data available

Lower explosion limits: 0,17

Upper explosion limits: 6,83

Ignition temperature: No data available

Auto-ignition temperature

Solid: No data available

Gas: No data available

Vapour pressure: 1 hPa

(at 183,8 °C)

Vapour pressure: 10 hPa

(at 246 °C)

Density (at 20 °C): 2,05 g/cm³

Water solubility: No data available

Partition coefficient: No data available

Viscosity / dynamic: No data available

Viscosity / kinematic: No data available

Flow time: No data available

Vapour density: No data available

Evaporation rate: No data available

Solvent separation test: No data available

Solvent content: No data available

9.2. Other information

Solid content: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Oxidizing agents, strong.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Toxicological data are not available.

Safety Data Sheet

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Sulfur, purified by sublimation, 500 g

Print date: 15.04.2015

Product code: 9991878

Page 5 of 7

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7704-34-9	sulfur				
	oral	LD50	> 5000 mg/kg	Ratte	

Irritation and corrosivity

After skin contact: Irritant.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fulfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
7704-34-9	sulfur					
	Acute fish toxicity	LC50	866 mg/l	96 h	Danio rerio	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sulfur, purified by sublimation, 500 g

Print date: 15.04.2015

Product code: 9991878

Page 6 of 7

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1350
14.2. UN proper shipping name: SULPHUR
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1
 Classification code: F3
 Special Provisions: 242
 Limited quantity: 5 kg
 Transport category: 3
 Hazard No: 40
 Tunnel restriction code: E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number: UN 1350
14.2. UN proper shipping name: SULPHUR
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1
 Classification code: F3
 Special Provisions: 242
 Limited quantity: 5 kg

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN 1350

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Sulfur, purified by sublimation, 500 g

Print date: 15.04.2015

Product code: 9991878

Page 7 of 7

14.2. UN proper shipping name: SULPHUR

14.3. Transport hazard class(es): 4.1

14.4. Packing group: III

Hazard label: 4.1

Special Provisions: 242, 967

Limited quantity: 5 kg

EmS: F-A, S-G

Other applicable information (marine transport)

E1

Air transport (ICAO)

14.1. UN number: UN 1350

14.2. UN proper shipping name: SULPHUR

14.3. Transport hazard class(es): 4.1

14.4. Packing group: III

Hazard label: 4.1

Special Provisions: A105

Limited quantity Passenger: 10 kg

IATA-packing instructions - Passenger: 445

IATA-max. quantity - Passenger: 20 kg

IATA-packing instructions - Cargo: 449

IATA-max. quantity - Cargo: 100 kg

Other applicable information (air transport)

E1

: Y443

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

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

National regulatory information

Water contaminating class (D): -- not water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

38 Irritating to skin.

Relevant H- and EUH-phrases (Number and full text)

H315 Causes skin irritation.