

## SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Sulfur precipitated

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

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

## 1.1. Product identifier

Substance / mixture	Sulfur precipitated
Chemical name	substance
CAS number	sulfur
Index number	7704-34-9
EC (EINECS) number	016-094-00-1
Registration number	231-722-6
Other substance name	01-2119487295-27
	Sulfur precipitated

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

## Substance's intended use

Chemical production, analytical chemistry, laboratory synthesis, industrial applications.

## Substance uses advised against

The product should not be used in ways other than those referred in Section 1.

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

## Supplier

Name or trade name	Ing. Petr Švec - PENTA s.r.o.
Address	Radiová 1122/1, Praha 10, 102 00
	Czech Republic
Identification number (CRN)	02096013
VAT number	CZ02096013
Phone	+420 226 060 681
Email	info@pentachemicals.eu
Web address	www.pentachemicals.eu

## Competent person responsible for the safety data sheet

Name	Ing. Petr Švec - PENTA s.r.o.
Email	info@pentachemicals.eu

## 1.4. Emergency telephone number

European emergency number: 112 112

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

## Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Skin Irrit. 2, H315

## Most serious adverse effects on human health and the environment

Causes skin irritation.

## 2.2. Label elements

## Hazard pictogram



## Signal word

Warning

**SAFETY DATA SHEET**

according to Commission Regulation (EU) 2020/878 as amended

**Sulfur precipitated**

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

**Dangerous substance**

sulfur  
(Index: 016-094-00-1; CAS: 7704-34-9)

**Hazard statements**

H315 Causes skin irritation.

**Precautionary statements**

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P332+P313 If skin irritation occurs: Get medical advice/attention.

**2.3. Other hazards**

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components. Dust may form explosive mixture with air.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

**Chemical characterization**

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 016-094-00-1 CAS: 7704-34-9 EC: 231-722-6 Registration number: 01-2119487295-27	<b>substance main component</b> sulfur	>99	Skin Irrit. 2, H315	

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air.

**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

**If swallowed**

Rinse out the mouth with water and provide 0.2-0.5 L of water. Provide medical treatment if the person has any health problems.

**SAFETY DATA SHEET**

according to Commission Regulation (EU) 2020/878 as amended

**Sulfur precipitated**

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

Not expected.

**If on skin**

Causes skin irritation.

**If in eyes**

Not expected.

**If swallowed**

Irritation, nausea.

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

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

**Unsuitable extinguishing media**

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**5.3. Advice for firefighters**

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

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

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

**7.3. Specific end use(s)**

not available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

none

## SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Sulfur precipitated

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

## 8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

## Eye/face protection

It is not needed.

## Skin protection



Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Glove material	Thickness	Breakthrough time	Class
Neoprene (CR)	≥ 0.7 mm	>30 min	2

## Respiratory protection

It is not needed.

## Thermal hazard

Not available.

## Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	yellow
Odour	characteristic
Melting point/freezing point	119.5 °C
Boiling point or initial boiling point and boiling range	444 °C
Flammability	flammable
Lower and upper explosion limit	
bottom	1 %
upper	40 %
Flash point	168 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	<0.01 kPa at 20 °C
Density and/or relative density	
Density	1.96-2.07 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

## 9.2. Other information

not available

## SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Sulfur precipitated

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

The substance is non-flammable.

## 10.2. Chemical stability

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Unknown.

## 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

## 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

## 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

No toxicological data is available for the substance.

## Acute toxicity

Based on available data the classification criteria are not met.

sulfur						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
	LD <sub>50</sub>	>5000 mg/kg		Rat		Kirsch
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit		Kirsch

## Skin corrosion/irritation

Causes skin irritation.

sulfur			
Route of exposure	Result	Exposure time	Species
	Irritating		

## Serious eye damage/irritation

Based on available data the classification criteria are not met.

sulfur			
Route of exposure	Result	Exposure time	Species
	Irritating		

## Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

**SAFETY DATA SHEET**

according to Commission Regulation (EU) 2020/878 as amended

**Sulfur precipitated**

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

**Sensitization**

<b>sulfur</b>				
Route of exposure	Result	Exposure time	Species	Sex
	Negative			

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

<b>sulfur</b>				
Result	Exposure time	Specific target organ	Species	Sex
Negative				

**Carcinogenicity**

No data available for the substance. Based on available data the classification criteria are not met.

**Reproductive toxicity**

No data available for the substance. Based on available data the classification criteria are not met.

**Toxicity for specific target organ - single exposure**

No data available for the substance. Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

No data available for the substance. Based on available data the classification criteria are not met.

**Aspiration hazard**

No data available for the substance. Based on available data the classification criteria are not met.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption for humans.

**Other information**

not available

**SECTION 12: Ecological information**

**12.1. Toxicity**

Based on available data the classification criteria are not met.

**Acute toxicity**

<b>sulfur</b>					
Parameter	Value	Exposure time	Species	Environment	Source
LC50	866 mg/l		Branchydanio rerio		Kirsch
EC50	>10000 mg/l	24 hours	Daphnia magna		Kirsch

**12.2. Persistence and degradability**

No data available for the substance.

**12.3. Bioaccumulative potential**

No data available for the substance.

## SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Sulfur precipitated

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

**12.4. Mobility in soil**

Based on available data the classification criteria are not met. Does not contain any PMT or vPvM components.

**12.5. Results of PBT and vPvB assessment**

Based on available data the classification criteria are not met. Does not contain any PBT or vPvB components. Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption in the environment.

**12.7. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**SECTION 14: Transport information****14.1. UN number or ID number**

UN 1350

**14.2. UN proper shipping name**

SULPHUR

**14.3. Transport hazard class(es)**

4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives

**14.4. Packing group**

III

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user**

not available

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**Additional information**

Hazard identification No.



F3

4.1



Tunnel restriction code

(E)

## SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Sulfur precipitated

Creation date	19th September 2019	Version	4.0
Revision date	27th January 2026		

## Air transport - ICAO/IATA

Packaging instructions passenger	446
Cargo packaging instructions	449

## Marine transport - IMDG

EmS (emergency plan)	F-A, S-G
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## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

## A list of standard risk phrases used in the safety data sheet

H315 Causes skin irritation.

## Guidelines for safe handling used in the safety data sheet

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P332+P313 If skin irritation occurs: Get medical advice/attention.

## Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

## Key to abbreviations and acronyms used in the safety data sheet

ADR Agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

EC Identification code for each substance listed in EINECS

EC<sub>50</sub> Concentration of a substance when it is affected 50 % of the population

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency Response Procedures for Ships Carrying Dangerous Goods

EU European Union

EuPCs European Product Categorisation System

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods

IMO International Maritime Organization

INCI International Nomenclature of Cosmetic Ingredients

ISO International Organization for Standardization

IUPAC International Union of Pure and Applied Chemistry

LC<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population

## SAFETY DATA SHEET

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## Sulfur precipitated

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Revision date	27th January 2026		

LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

The version 4.0 replaces the SDS version from Thursday, 9 January 2025. Changes were made in sections 2, 13, 15 and 16.

**More information**

Classification procedure - calculation method.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.