Safety data sheet

1		5 5 X	C) No 1907/2006 (REACH) as	amenaca	
			r precipitated		
	on date on date	19th September 2019 17th June 2022	Version	2.0	
		of the substance/mixtu	re and of the company/une	-	
1.1.	Product identifier		Sulfur precipitated		
	Substance / mixture Chemical name		substance sulfur		
	CAS number		7704-34-9		
	Index number		016-094-00-1		
	EC (EINECS) numbe	r	231-722-6		
	Registration number		01-2119487295-2	7	
	Other substance nar				
	Sulfur precipit	ated			
1.2.			r mixture and uses advised	l against	
	Substance's intend				
			atory synthesis, industrial ap	plications.	
	Substance uses ad	_			
			nen those referred in Section	1.	
1.3.		plier of the safety data sh	leet		
	Supplier		· × -		
	Name or trade	name	Ing. Petr Švec - Pl		
	Address		Radiová 1122/1, F	rana 10, 102 00	
	Identification r	aumhar (CDN)	Czech Republic 02096013		
	VAT Reg No		CZ02096013		
	Phone		+420 226 060 683	1	
	E-mail		info@pentachemic		
	Web address		www.pentachemic		
	Competent person	responsible for the safet			
	Name	-	Ing. Petr Švec - Pl	ENTA s.r.o.	
	E-mail		info@pentachemic	als.eu	
1.4.	Emergency teleph	one number			
	European emergency	y number: 112			
	ON 2: Hazards ident	tification le substance or mixture			
2.1.			ce with Regulation (EC) No	1777/2008	
		ssified as dangerous.		12/2/2008	
		ssilleu as ualigelous.			
	Skin Irrit. 2, H315				
	Full text of all classif	ications and hazard stateme	ents is given in the section 16		
	Most serious advertised of the serious advertised of the series of the s	rse effects on human hea า.	Ith and the environment		
2.2.	Label elements				



according to Regulation (EC) No 1907/2006 (REACH) as amended						
Sulfur precipitated						
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	Sulfur 19th September 2019	Sulfur precipitated 19th September 2019	Sulfur precipitated			

Dangerous substance

sulfur (Index: 016-094-00-1; CAS: 7	704-34-9)
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.

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	substance main component 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 2-5 dL of water. Provide medical treatment if the person has any health problems.



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Not expected				
If on skin Causes skin				
If on skin				
If on skin Causes skin	irritation.			
If on skin Causes skin If in eyes	irritation. 1.			
If on skin Causes skin If in eyes Not expected	irritation. 1. e d			

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

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



according to Regulation (EC) No 1907/2006 (REACH) as amended							
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8.2. Exposure controls

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

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

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
рН	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 ³ at 20 °C
Other information	
not available	

SECTION 10: Stability and reactivity

10.1. Reactivity not available

9.2.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.



according to Regulation (EC) No 1907/2006 (REACH) as amended							
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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
	LD50	>5000 mg/kg		Rat		Kirsch
Dermal	LD50	>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		

Sensitization

sulfur

Route of exposure	Result	Exposure time	Species	Sex
	Negative			

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Mutagenicity

sulfur

Result	Exposure time	Specific target organ	Species	Sex
Negative			Salmonella typhimurium	

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.



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Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on 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.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Sullul					
Parameter	Value	Exposure time	Species	Environment	Source
LC50	866 mg/l	96	Branchydanio rerio		Kirsch
EC50	>10000 mg/l	24 hour	Daphnia magna		Kirsch

12.2. Persistence and degradability

- Data not available.
- 12.3. Bioaccumulative potential
 - Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

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
- not available

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. Proceed in accordance with valid regulations on waste disposal. 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. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. 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



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14.3.	Transport hazard class(es)		
	4.1 Flammable solids, self-reactive subst	ances, polymerizing substances	and solid desensitized explosives
14.4.	Packing group		
	III - substances presenting low danger		
14.5.	Environmental hazards		
	not relevant		
14.6.	Special precautions for user		
	not available		
14.7.	· · · · · · · · · · · · · · · · · · ·	IMO instruments	
	not relevant		
	Additional information		
	Hazard identification No.	40	
	UN number	1350	
	Classification code	F3	
	Safety signs	4.1	
	Air transport - ICAO/IATA		
	Packaging instructions passenger	446	
	Cargo packaging instructions	449	
	Marine transport - IMDG		
	EmS (emergency plan)	F-A, S-G	

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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phra	andard risk phrases used in the safety data sheet		
H315	Causes skin irritation.		
Guidelines for safe handlin	g 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 informatio	on about human health protection		
The product must not be - up	loss specifically approved by the manufacturer/importer - used for		

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.

penta[°] CHEMICALS UNLIMITED

Safety data sheet

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Key to abbrevia	ations and acronyms used in the	e safety data sheet	
ADR	-	-	national carriage of dangerous goods by
	road		
BCF	Bioconcentration Fa		
CAS	Chemical Abstracts		
CLP	substance and mixt	ures	ation, labelling and packaging of
EC50			fected 50% of the population
EINECS		of Existing Commercia	al Chemical Substances
EmS	Emergency plan		
ES		for each substance liste	ed in EINECS
EU	European Union		
EuPCS	•	ategorisation System	
IATA	International Air Tra	•	
IBC			nd Equipment of Ships Carrying
ICAO	Dangerous Chemica		
IMDG		viation Organization	
INCI		me Dangerous Goods	aradianta
ISO		nclature of Cosmetic In	-
IUPAC		ization for Standardiza of Pure and Applied Ch	
LC50			ch it can be expected death of 50% of the
LCJU	population		
LD50	• •	ostance in which it can	be expected death of 50% of the
log Kow	Octanol-water parti	tion coefficient	
MARPOL	International Conve	ntion for the Preventio	n of Pollution from Ships
OEL	Occupational Expos	ure Limits	
PBT	Persistent, Bioaccur	nulative and Toxic	
ppm	Parts per million		
REACH	Registration, Evalua	ation, Authorisation and	Restriction of Chemicals
RID	Agreement on the t	ransport of dangerous	goods by rail
UN	Four-figure identific Model Regulations	ation number of the su	bstance or article taken from the UN
UVCB	Substances of unkn biological materials	own or variable compo	sition, complex reaction products or
VOC	Volatile organic com	•	
vPvB	Very Persistent and	very Bioaccumulative	

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 2.0 replaces the SDS version from 19 September 2019. Changes were made in sections 2,3, 8,11,12, 13, 15 and 16.

More information



according to Regulation (EC) No 1907/2006 (REACH) as amended						
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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.