
	SAFETY DATA SHEET SULFUR PRECIPITATED <small>according to Regulation (EC) No. 1907/2006 (REACH) and Commission Regulation (EU) No. 2020/878</small>	Revised: c Date of publication: 11.03.2009 Revision date: 17.08.2023
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SECTION 1: Identification of the substance and company/undertaking

- 1.1 Product identifier**
Chemical / trade name: SULFUR PRECIPITATED
CAS identification number: 7704-34-9
EINECS number: 231-722-6
Distributor: Ekokoza sro
Address: Fryšovice 297, 73945, Fryšovice
ID: 07508247, eshop@ekokoza.cz
- 1.2 Relevant identified uses of the substance and uses advised against Intended uses:** Cosmetic and pharmaceutical industry.
Not recommended uses: Not listed.
- 1.3 Details of the supplier of the safety data sheet**
Business name: Ekokoza sro
Residence: Fryšovice 297, 73945.
Identification number: Fryšovice
Tel: ID: 07508247.
www: eshop@ekokoza.cz
BL processor:
- 1.4 Telephone number for urgent situations**
Toxicology Information Centre, Na Bojišti 1, 120 00 Prague 2. Emergency telephone: +420 224 91 92 93 or +420 224 91 54 02, www.tis-cz.cz

SECTION 2: Hazards identification

- 2.1 Classification of the substance**
Classification according to Regulation (EC) No. 1272/2008 (CLP):
Skin irritation, Category 2, H315 Irritating to skin.
- 2.2 Marking elements**
Labeling according to Regulation (EC) No. 1272/2008 (CLP): Warning symbol:
-
- Signal word:** WARNING
- Contains:** Sira
- H-phrases:** H315 Irritating to skin.
- P-instructions:**
P264 Wash hands and affected body parts thoroughly after handling.
P280 Wear protective gloves.
P302/352 IF ON SKIN: Wash with plenty of soap and water.
P321 Professional treatment (see... on label)
P332/313 In case of skin irritation: Get medical advice/treatment.
P362/364 Take off contaminated clothing and wash before reuse.
- Additional information:** They are not.
- 2.3 Another danger**
Based on the results of the assessment, this substance is not PBT or vPvB.
This product does not contain an SVHC substance in a concentration of 0.1% by weight or higher.
This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

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SECTION 3: Composition / information on ingredients

3.1 Substances

Folder name	Content (wt%)	CAS EINECS Index N° Reg. number	Classification according to regulation (EC) no. 1272/2008 (CLP)	
Sir	100	7704-34-9 231-722-6 016-094-00-1	Skin Irrit. 2	H315

Full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1 Description of first aid

4.1.1 General instructions:

In any case, avoid chaotic actions. If medical treatment is necessary, always take the original packaging with the label or the safety sheet with you. In life-threatening situations, first resuscitate the affected person and provide medical assistance. Respiratory arrest - perform artificial respiration immediately. Cardiac arrest - perform indirect cardiac massage immediately. Unconsciousness - place the victim in a stabilized position on his side. It is always necessary to assess the situation with regard to one's own safety and the safety of the affected person. We will only enter the infested area if we have adequate protection (insulating breathing apparatus, mask with the appropriate filter, securing by another worker, etc.) ATTENTION! Whenever it comes to poorly ventilated spaces, the possibility that the space is infested must be taken into account! When handling stained clothing or other objects, it is necessary to protect yourself with appropriate personal protective equipment, including gloves. First aid should not be performed at the scene of the accident if there is a risk of contamination of the rescuer.

4.1.2 When inhaling:

Interrupt exposure. Remove the affected person to fresh air, keep them calm and warm.

4.1.3 In case of skin contact:

Remove contaminated clothing and footwear. Wash affected skin with soap and water. Seek medical attention if irritation occurs.

4.1.4 In case of eye contact:

If contact lenses are worn, carefully remove them and start rinsing with clean water, with the affected eye wide open, from the inner corner to the outer and also under the lids for at least 15 minutes. Seek medical attention if problems persist.

4.1.5 If ingested:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person.

4.1.6 Protection of first responders:

When providing first aid, it is necessary to ensure the safety of both the rescuer and the rescued.

4.2 Most important symptoms and effects, both acute and delayed

If first aid procedures are effectively applied, no acute or delayed symptoms or effects are expected.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Hasiva

Suitable extinguishing agents:

Foam, extinguishing powder, CO2, water mist.

Unsuitable extinguishing agents:


Direct stream of water - fire could spread.

5.2 Special hazards arising from the substance

Combustion products and hazardous gases: smoke, carbon monoxide, carbon dioxide. Remove closed containers as far as possible from the fire and cool them with water mist.

5.3 Instructions for firefighters

Emergency responders exposed to smoke or vapors must be equipped with respiratory and eye protection, protective clothing. When working in closed spaces, it is necessary to use a self-contained breathing apparatus. Cool containers exposed to fire with water mist. Do not spray water directly into the container to avoid excessive foaming. Collect extinguishing water separately and prevent it from entering water and soil.

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SECTION 6: Accidental release measures

6.1 Personal protection measures, protective equipment and emergency procedures

Avoid contamination of clothing and footwear with the product and contact with skin and eyes. Use suitable protective clothing, change soiled clothing. Ensure ventilation of the affected area. Remove all persons not involved in rescue operations to a safe distance.

6.2 Environmental protection measures

Prevent leakage into the environment, soil, prevent entry into surface water and sewage. In the event of a leak, immediately inform the watercourse/sewerage manager and the relevant authorities.

6.3 Methods and material for containment and cleaning up

In the event of a leak, locate and, if possible, pump out the product or mechanically remove it, remove it from the surface of the water. Allow residues or smaller amounts to soak into a suitable sorbent (diatomaceous earth, sand) and place in suitable marked containers and hand over for recycling / disposal in accordance with applicable regulations.

6.4 Reference to Other Sections

viz odd. 7, 8 a 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use appropriate PPE. Use only in well-ventilated areas with a guaranteed supply of fresh air. Do not eat, drink or smoke while working. Wash your hands after finishing work. Do not inhale fumes. Comply with legal regulations on occupational health and safety. All fire precautions must be observed during handling.

7.2 Conditions for safe storage of the substance, including incompatible substances and mixtures

Store in well-closed containers in a dry, cool and well-ventilated place. Protect from light and moisture. Storage temperature: minimum 5 °C, maximum 25 °C. Quantitative limit under given storage conditions: 5000 t.

Contents	Type of packaging	Packaging material
50 g	glass	GL
100 g	glass	GL
250 g	glass	GL
500 g	glass	GL
100 g	bag	

7.3 Specific end / specific end uses

viz odd. 1.2

SECTION 8: Exposure controls / personal protective equipment

8.1 Control parameters

Exposure limits:


Government Regulation No. 361/2007 Coll., which establishes the conditions for health protection at work, as amended, establishes the following maximum permissible concentrations (NPK-P) and permissible exposure limits (PEL) of chemical substances in the workplace air:

Fabric	CAS	PEL (mg/m³) NPK-P (mg/m³)	Note
No data available.			

Substances for which a Union exposure limit is set:

Fabric	CAS	Limit values (mg/m³)		Note
		OIL	SET	
No data available.				

DNEL and PNEC values for the other components of the mixture have not been determined.

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8.2 Exposure controls

8.2.1 Technical measures

Technical measures and appropriate work procedures take precedence over personal protective equipment. Observe normal hygiene principles. Do not eat, drink or smoke while working. Wash your hands with warm water and soap before a work break and after work.

8.2.2 Individual protective measures

Respiratory protection:

In case of exceeding the exposure limits, or when creating fog/dust/vapour/aerosol, use a mask with an A/P filter, according to ČSN EN 14387+A1.

Hand protection:

Protective work gloves resistant to chemicals according to ČSN EN 374. In any case, protective gloves should be tested for the specific suitability of their use at the given workplace (e.g. for their mechanical resistance, compatibility with the product and antistatic properties). Follow the exact instructions from the manufacturer, including the time of use. Replace damaged gloves.

Eye and face protection:

Use protective glasses with side shields or a face shield, according to ČSN EN 166.

Skin protection:

Work clothes (ČSN EN ISO13688) and footwear (ČSN EN ISO 20347).

8.2.3 Thermal hazard: No

data available.

8.2.4 Limiting environmental exposure: Prevent

unnecessary releases to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties


Property	Value	Method	Note
State:	A solid substance		
Color:	Light yellow		
Odor:	Characteristic No		
Odor threshold: pH: Melting	data available No data		
	available.		
point/freezing point (°C):	113-119		
Boiling point or initial boiling point and boiling range (°C): Flash	444		
point (°C):	160 - 168		
Evaporation rate:	No data available. No		
Flammability (solids, gases, liquids): Lower	data available. 0.17% /		
and upper explosion limits: Vapor pressure	6.73% 0.01 No		
(hPa): Vapor	data		
pressure (50°C):	available. 8.9 1.96 - 2.06		
Vapor density (g/l):			
Density and/or relative density (g/cm ³ , 20°C):			
Solubility (20°C):	Practically insoluble No		
Partition coefficient n-octanol/water (log value):	data available.		
Autoignition temperature	240		
(°C): Decomposition	250		
temperature (°C): Kinematic	No data available. No		
viscosity (40°C):	data available. No data		
Refractive index (20°C): Oxidizing properties :	available. No data		
Explosive properties:	available. No data		
Particle characteristics:	available.		

9.2 More information

VOC content (%): No data available. No

Dry matter content: data available.

Additional information: Ignition temperature for dust: 575 °C

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9.2.1 Information regarding physical hazard classes

The product is not physically dangerous.

9.2.2 Other safety characteristics No data available.

SECTION 10: Stability and reactivity

10.1 Reactive

The substance is flammable.

10.2 Chemical stability

The mixture is stable under the recommended method of use, handling and storage.

10.3 Possibility of dangerous reactions

When used correctly, there is no risk of dangerous reactions.

10.4 Conditions to avoid The mixture is

stable under recommended use, handling and storage. Exposure to heat, open fire and moisture.

10.5 Incompatible materials

Strong oxidizing agents, chlorates, perchlorates, peroxides, nitro compounds, metals, carbons, fats and oils. There is a risk of an exothermic reaction.

10.6 Hazardous Decomposition

Products Hazardous decomposition products should not be formed under normal storage and use. At high temperatures and in a fire, dangerous decomposition products (carbon monoxide and carbon dioxide, sulfur oxides and gaseous hydrogen sulphide) are formed.

SECTION 11: Toxicological information

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

sira (CAS: 7704-34-9)

Acute toxicity

Test type	Result	Exposure route	Test organism
OECD 401, Key Study	> 2 000 mg/kg bw, LD50	oral: gastric in the end	rat
OECD 402, Key Study	> 2 000 mg/kg bw, LD50	dermal	rat rat
OECD 403, Key Study	> 5.43 g/m3	inhale	

Serious eye damage/irritation

Test type	The result	Eye exposure	Test organism
OECD 405, Key Study	is non-irritating	path	rabbit

Skin corrosion/irritation

Test type	The result	Route of dermal	Test organism rabbit
OECD 404, Key Study	is irritating	exposure	

Respiratory/skin sensitization


Test type	The result	Route of dermal	Guinea pig test
OECD 406, Key Study	is not sensitizing	exposure	organism

STOT - one-time exposure

Test type	Result	Exposure route	Test organism
	No data available.		

STOT - repeated exposure

Test type	Výsledek	Oral exposure	Test organism rat
OECD 408, Key Study	1 000 mg/kg bw/day, NOAEL	route	
OECD 410, Key Study	400 mg/kg bw/day, NOAEL 1 000 mg/kg bw/day, NOAEL	dermal	rat

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Carcinogenic

Test type	Result No	Exposure route	Test organism
	data available.		

Germ cell mutagenicity

Test type	Result	Exposure route	Test organism
OECD 474, Key Study	negative	orally: gastric in the end mouse	

Reproductive toxicity

Test type	Result No	Exposure route	Test organism
	data available.		

Inhalation hazard

Test type	Result No	Exposure route	Test organism
	data available.		

substance

Acute toxicity:	The product does not meet the criteria for classification.
Serious eye damage/irritation: Skin corrosion/irritation:	The product does not meet the criteria for classification. It irritates the skin.
Respiratory/Skin Sensitization:	The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenic:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Inhalation hazard:	The product does not meet the criteria for classification.

11.2 Information on additional hazards

Properties causing disruption of the endocrine system This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

More information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

The product does not meet the criteria for classification.


sira (CAS: 7704-34-9)

Toxicity	Test organism	Výsledek	Test type
Acute toxicity to fish	<i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)	> 5 µg/L, LC0 / 96 h > 5 µg/L, NOEC / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 5 µg/L, EC50 / 48 h > 5 µg/L, NOEC / 48 h	OECD 202
Acute toxicity to algae		> 5 µg/L, NOEC / 72 h	OECD 201

12.2 Persistence and Deployability

No data available.

Biodegradation: The substance is biodegradable.

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12.3 Bioaccumulative potential

No data available.

log Kow / log Pow: No data available for the substance.

Bioaccumulation: No data are available for the substance.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Based on the results of the assessment, this substance is not PBT or vPvB.

12.6 Properties causing disruption of the endocrine system

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

12.7 Other Adverse Effects

They are not.

SECTION 13: Disposal considerations**13.1 Waste management methods****13.1.1 Catalog number of the substance waste:**

06 06 99 Waste not otherwise specified

13.1.2 Catalog number of packaging waste:

15 01 10 Packaging containing residues of dangerous substances or packaging contaminated with these substances

13.1.3 Recommended procedure for disposal of substance waste:

Collect the remains of the mixture in marked containers and hand them over to a person authorized to handle hazardous waste for disposal. Suitable method of disposal: incineration in a hazardous waste incinerator. If possible, regenerate the product.

13.1.4 Recommended procedure for disposal of waste packaging contaminated with the substance:

Empty packaging must be disposed of by the waste generator in accordance with applicable waste legislation. After thorough cleaning, the packaging can be used as a secondary raw material for the same purpose. The recommended method of disposal is recycling, burning in a hazardous waste incinerator or depositing hazardous waste in a landfill.

13.1.5 Physical/chemical properties that may affect waste management:

No data available.


13.1.6 Prevention of disposal of wastes through sewers:


Protect against the weather. Prevent leakage of waste into water/soil/sewage. In case of leakage, inform the relevant authorities.

13.1.7 Special precautions for waste management:

Dispose in accordance with applicable legislation.

SECTION 14: Transport information

	Transport type	Land transport ADR / RID	Sea transport IMDG	Air transport ICAO / IATA
14.1	UN number or ID number	1350	1350	1350
14.2	Official (UN) shipping name	SIRA	SULPHUR	SULPHUR
14.3	Transport hazard class/classes	4.1	4.1	4.1
	Hazard identification number	40		
	EmS		FA, SG	
	Packaging instructions	P002 / IBC08 / LP02 / R001	P002;LP02 / IBC08 (IBC)	(passenger/cargo) 446 / 449
	Safety signs	4.1		
				
14.4	Packaging group	III	III	III

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- 14.5 Environmental hazard
- Yes
- 14.6 Special precautions for user No data available.
- 14.7 Maritime bulk transport according to IMO instruments Not applicable.

More information

Transport type	Land transport ADR / RID	Sea transport IMDG	Air transport ICAO / IATA
Limited amount:	5 kg	5 kg	Y443
Excluded quantity:	E1	E1	E1
Transport category:	3	-	-
Restriction code for tunnels:	(AND)	-	-
Segregation group:	-	SG17	-

SECTION 15: Regulatory Information

- 15.1
- Regulations relating to safety, health and the environment / specific legal regulations relating to the substance all as amended and including implementing regulations Act No. 350/2011 Coll., on chemical substances...
- Act No. 258/2000 Coll., on the protection of public health...
- Act No. 541/2020 Coll., on waste...
- Act No. 201/2012 Coll., on air...
- Law no. 254/2001 Coll., on waters...
- Act No. 477/2001 Coll., on packaging...
- Act No. 111/1994 Coll., on road transport Act No. 224/2015 Coll., on the prevention of serious accidents...
- NV No. 361/2007 Coll., Health protection conditions at work...
- Decree No. 432/2003 Coll., which establishes the conditions for classifying works into categories...
- Regulation (EC) No. 1272/2008 (CLP) on classification, labeling and packaging of substances and mixtures,...
- Regulation (EC) No. 1907/2006 (REACH) on the Registration, Evaluation, Authorization and Restriction of Chemicals....
- Regulation of the European Parliament and Council (EC) No. 648/2004 on detergents
- Regulation (EC) No. 528/2012 on biocides
- Regulation (EC) No. 2019/1009 on fertilizers

- 15.2 Chemical safety assessment A chemical safety assessment has not been carried out.

SECTION 16: Further information


Full text of all classifications and hazard classes listed in Section 3

Hazard class: Skin Irritation. 2 - Skin irritation, category 2

H-phrases: H315 Irritating to skin.

Abbreviations

ADR	European agreement on the international transport of dangerous goods by road
CAS	Chemical Abstracts Service
TODAY	Derived no-effect level Effect concentration for 50%
EC50	
EINECS	European Inventory of Existing Commercial Chemical Substances
THEIR IT IS	International Air Transport Association
ICAO	Technical instructions for the safe air transport of dangerous goods
IMDG	International Regulation on the Carriage of Dangerous Goods by Sea

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LD50	Lethal dose for 50% of individuals (lethal dose for 50%) No
NOAEL	observable adverse effect level No observable effect concentration
NOEC	
NPK-P	The highest permissible concentration at the
OIL	workplace Occupational Exposure Limit (exposure limit at the workplace - 8 hours/shift)
PBT	Persistent, bioaccumulative, toxic (persistent, bioaccumulative, toxic)
PEL	Permissible exposure limit
PNEC	Expected concentration without effect (predicted no-effect concentration) Regulation
RID	for international rail transport of dangerous goods Short-term exposure -
SET	corresponds to approx. 15 min. (Short Term Exposure Limit)
VOC	Volatile organic compounds
vPvB	Highly persistent and highly bioaccumulative Water
WGK	hazard classes (Wassergefährungsklassen)

Changes against the previous version of BL:

This revision builds on version "B" of 31 January 2012 and is in accordance with Regulation (EC) No. 1272/2008 (CLP).

The following materials were used for the revision of the safety data sheet: MSDS of the supplier, CASEC program.

The classification was carried out by a computational method.

Training instructions

Workers who come into contact with dangerous substances must be familiarized with the effects of these substances, the methods of handling them, and protective measures to the extent necessary.
Furthermore, they must be familiarized with the principles of first aid, with the necessary sanitation procedures and with the procedures for liquidating malfunctions and accidents.

The person who handles this chemical product must be familiar with the safety rules and information given in the safety data sheet.

If the hazardous chemical substance/mixture is classified as corrosive or toxic, workers must be familiar with the Rules for Handling Corrosive/Toxic Chemical Substance/Mixture.

Persons transporting dangerous substances must be familiar with the instructions in the event of an accident in accordance with ADR/RID regulations.

More information

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer, serves as instructions for the training of persons handling the product.
The manufacturer bears a guarantee for the above-described properties of the product in the recommended way of use.
The user is responsible for determining the suitability of the product for specific purposes and adapting safety measures if this use is contrary to the manufacturer's recommendations.