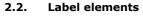


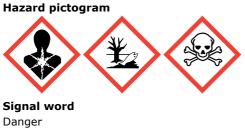
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		Sele	enous acid	
Creati	on date	10th August 2019		
Revisi	on date	14th May 2024	Version	4.0
SECT	ON 1: Identification	of the substance/mixture	and of the company/u	ndertaking
1.1.	Product identifier		Selenous acid	J
	Substance / mixture		substance	
	Chemical name			unds with the exception of cadmium nd those specified elsewhere in this
	CAS number		7783-00-8	
	Index number		034-002-00-8	
	EC (EINECS) number		231-974-7	
1.2.		uses of the substance or	mixture and uses advise	ed against
	Substance's intende	ed use		
		analytical chemistry, laborat	ory synthesis, industrial a	pplications.
	Substance uses adv	-		
		ot be used in ways other tha		ו 1.
	Details of the suppl	ier of the safety data she		
1.3.	••	lei of the safety data she	et	
1.3.	Supplier	•		
1.3.	Supplier Name or trade r	•	Ing. Petr Švec -	
1.3.	Supplier	•	Ing. Petr Švec - Radiová 1122/1,	PENTA s.r.o. Praha 10, 102 00
1.3.	Supplier Name or trade i Address	name	Ing. Petr Švec - Radiová 1122/1, Czech Republic	
1.3.	Supplier Name or trade r Address Identification nu	name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013	
1.3.	Supplier Name or trade r Address Identification nu VAT Reg No	name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013	Praha 10, 102 00
1.3.	Supplier Name or trade r Address Identification nu VAT Reg No Phone	name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 68	Praha 10, 102 00 81
1.3.	Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail	name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 66 info@pentachem	Praha 10, 102 00 81 iicals.eu
1.3.	Supplier Name or trade r Address Identification nu VAT Reg No Phone E-mail Web address	name umber (CRN)	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 66 info@pentachem www.pentachem	Praha 10, 102 00 81 iicals.eu
1.3.	Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address Competent person of	name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 64 info@pentachem www.pentachem data sheet	Praha 10, 102 00 81 icals.eu icals.eu
1.3.	Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address Competent person of Name	name umber (CRN)	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 60 info@pentachem www.pentachem data sheet Ing. Petr Švec -	Praha 10, 102 00 81 iicals.eu iicals.eu PENTA s.r.o.
	Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address Competent person of Name E-mail	name umber (CRN) r esponsible for the safety	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 64 info@pentachem www.pentachem data sheet	Praha 10, 102 00 81 iicals.eu iicals.eu PENTA s.r.o.
1.3.	Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address Competent person of Name	responsible for the safety name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 60 info@pentachem www.pentachem data sheet Ing. Petr Švec -	Praha 10, 102 00 81 iicals.eu iicals.eu PENTA s.r.o.

STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (multiplying factor = 10) **Most serious adverse effects on human health and the environment**

May cause damage to organs through prolonged or repeated exposure. Toxic if swallowed or if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.







SAFETY DATA SHEET

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

Selenous acid				
Creation date	10th August 2019			
Revision date	14th May 2024	Version	4.0	
Hazard statem	ents			
H373	May cause dama	ge to organs through prolo	nged or repeated exposure.	
H410	Very toxic to aqu	atic life with long lasting ef	fects.	
H301+H331	Toxic if swallowe	d or if inhaled.		
Precautionary	statements			
P260	Do not breathe d	ust.		
P301+P310	IF SWALLOWED:	Immediately call a doctor.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P311	Call a doctor.			-
P391	Collect spillage.			

Store in a well-ventilated place. Keep container tightly closed.

P403+P233 **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. 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: 034-002-00-8 CAS: 7783-00-8 EC: 231-974-7	substance main component selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex		Acute Tox. 3, H301, H331 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=10)	1

Notes

1 Note A: Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4.

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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment.



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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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

Give the affected person water (no more than two glasses). Seek medical attention immediately. Only in exceptional cases, if medical treatment is not available within one hour, induce vomiting (only in fully conscious persons), administer activated charcoal (20-40 g in 10% slurry) and transport to a doctor as soon as possible.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Not expected. **If on skin** Not expected. **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. Do not inhale dust. Prevent contact with skin and eyes.

6.2. Environmental precautions Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains. 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.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not inhale dust. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

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. Store locked up. Keep container tightly closed.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

none

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. 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. Contaminated skin should be washed thoroughly.

Respiratory protection

Use insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

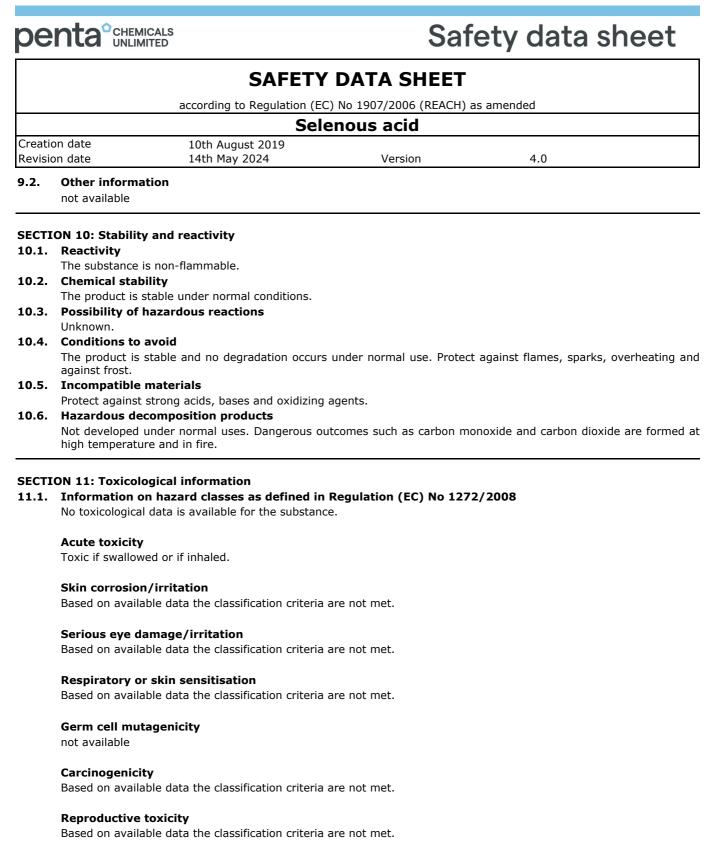
Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	colourless
Odour	without fragrance
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
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	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available



Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure. Based on available data the classification criteria are not met.



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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

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available for the substance.

- **12.3. Bioaccumulative potential** No data available for the substance.
- 12.4. Mobility in soil

No data available for the substance.

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 This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100. 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 3283

- **14.2.** UN proper shipping name SELENIUM COMPOUND, SOLID, N.O.S. (Kyselina seleničitá)
- 14.3. Transport hazard class(es)
 - 6.1 Toxic substances
- **14.4.** Packing group II
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.



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no	aritime transport in bulk according to 1 ot relevant dditional information Hazard identification No. UN number Classification code Safety signs	THO instruments 60 3283 T5 6.1+hazardous for the environment 6 6 6 6 6 6 6 6 6 6 6 6 6			
	Tunnel restriction code	(D/E)			
Ai	ir transport - ICAO/IATA				
	Packaging instructions passenger	670			
	Cargo packaging instructions	677			
М	arine transport - IMDG				
	EmS (emergency plan)	F-A, S-A			

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
H301	Toxic if swallowed.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H301+H331	Toxic if swallowed or if inhaled.
Guidelines for safe ha	andling used in the safety data sheet
P260	Do not breathe dust.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a doctor.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
Other important infor	mation about human health protection
The product must not b	e - unless specifically approved by the manufacturer/importer - used for purposes other the

an as per the Section 1. The user is responsible for adherence to all related health protection regulations.



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Key to abbreviat	tions and acronyms used in t	he safety data sheet		
ADR			ational carriage of dangerous goods by	
BCF	Bioconcentration	Factor		
CAS	Chemical Abstract	ts Service		
CLP	Regulation (EC) N substance and mi		tion, labelling and packaging of	
EC	Identification code	e for each substance listed	d in EINECS	
EINECS	European Invento	ry of Existing Commercia	Chemical Substances	
EmS	Emergency plan			
EU	European Union			
EuPCS	European Product	Categorisation System		
IATA		Fransport Association		
IBC	International Cod Dangerous Chemi		d Equipment of Ships Carrying	
ICAO	International Civi	Aviation Organization		
IMDG	International Mar	time Dangerous Goods		
IMO	International Mar	time Organization		
INCI	International Nom	nenclature of Cosmetic Ing	gredients	
ISO	International Orga	anization for Standardizat	ion	
IUPAC	International Unic	on of Pure and Applied Che	emistry	
log Kow	Octanol-water par	tition coefficient		
OEL	Occupational Exp	osure Limits		
PBT	Persistent, Bioacc	umulative and Toxic		
ppm	Parts per million			
REACH	Registration, Eval	uation, Authorisation and	Restriction of Chemicals	
RID	Agreement on the	e transport of dangerous g	joods by rail	
UN	Four-figure identi Model Regulations		ostance or article taken from the UN	
UVCB	Substances of unl biological materia		ition, complex reaction products or	
VOC	Volatile organic co	ompounds		
vPvB	Very Persistent ar	nd very Bioaccumulative		
Acute Tox.	Acute toxicity			
Aquatic Acute	Hazardous to the	aquatic environment		
Aquatic Chronic	Hazardous to the	aquatic environment (chr	onic)	
STOT RE	Specific target or	jan toxicity - repeated ex	posure	
Training guidelin				
Inform the person ways of handling t		ays of use, mandatory pro	tective equipment, first aid and prohibit	
	estrictions of use			
not available				
REGULATION (EC REGULATION (EC) the manufacturer) No. 1272/2008 OF THE EURO of the substance / mixture, if av	DPEAN PARLIAMENT AND PEAN PARLIAMENT AND vailable - information from	OF THE COUNCIL (REACH) as amended OF THE COUNCIL as amended. Data from registration dossiers.	
	hich information has been ad		-	
The version 4.0 re	eplaces the SDS version from 10	March 2023. Changes we	ere made in sections 1, 2 and 16.	
More informatio	n			

More information

Classification procedure - calculation method.



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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.