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		Peri	odic acid		
	on date on date	17th September 2019 26th November 2024	Version	3.0	
SECT	ON 1: Identification	of the substance/mixture	and of the company/undertak	king	
1.1.	Product identifier	-	Periodic acid	-	
	Substance / mixture		substance		
	Chemical name		Periodic acid		
	CAS number		10450-60-9		
	EC (EINECS) number		233-937-0		
	Registration number		01-2120784508-41-000	3	
	Other substance nam Periodic acid	е			
1.2.	Relevant identified	uses of the substance or i	nixture and uses advised agai	inst	
	Substance's intended use				
	Substance's intend	ed use			
			ory synthesis, industrial application	ons.	
	Chemical production,	analytical chemistry, laborate	ory synthesis, industrial applicatio	ons.	
	Chemical production, Substance uses adv	analytical chemistry, laborate		ons.	
1.3.	Chemical production, Substance uses adv The product should no	analytical chemistry, laborativised against	those referred in Section 1.	ons.	
1.3.	Chemical production, Substance uses adv The product should no	analytical chemistry, laborativised against bot be used in ways other that	those referred in Section 1.	ons.	
1.3.	Chemical production, Substance uses adv The product should no Details of the suppl	analytical chemistry, laborat rised against ot be used in ways other than ier of the safety data shee	those referred in Section 1.		
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1.3.	Chemical production, Substance uses adv The product should no Details of the suppl Supplier Name or trade to Address Identification no VAT Reg No Phone E-mail Web address	analytical chemistry, laborativised against ot be used in ways other than ier of the safety data shee name	n those referred in Section 1. Ing. Petr Švec - PENTA s Radiová 1122/1, Praha 1 Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemicals.eu www.pentachemicals.eu	s.r.o. 10, 102 00	
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The substance is classified as dangerous.

Ox. Sol. 1, H271 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT RE 1, H372 (thyroid gland) Aquatic Acute 1, H400 **Most serious adverse physico-chemical effects** May cause fire or explosion; strong oxidiser. **Most serious adverse effects on human health and the environment**

Causes severe skin burns and eye damage. Causes damage to thyroid gland through prolonged or repeated exposure. Very toxic to aquatic life.

Safety data sheet

	SAFETY I	DATA SHEET		
	according to Regulation (EC) I	No 1907/2006 (REACH) a	is amended	
Periodic acid				
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Signal word Danger

Dangerous substance

Periodic acid

(EC: 233-937-0; CAS: 10450-60-9)

(101203) 337 0, 67.01 10130	
Hazard statements	
H271	May cause fire or explosion; strong oxidiser.
H314	Causes severe skin burns and eye damage.
H372	Causes damage to thyroid gland through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
Precautionary statements	
P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.

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
CAS: 10450-60-9 EC: 233-937-0 Registration number: 01-2120784508-41- 0003	substance main component Periodic acid	>98	Ox. Sol. 1, H271 Skin Corr. 1C, H314 STOT RE 1, H372 (thyroid gland) Aquatic Acute 1, H400	

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.



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If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. 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. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Rinse cautiously with water for several minutes.

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

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

If inhaled

Inhaling dust can cause corrosion of the breathing system. Cough, headache.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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. Fight fire remotely due to the risk of explosion. Evacuate area.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. The substance is flammable. May cause fire or explosion; strong oxidiser. Remove all ignition sources. 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

Do not allow to enter drains. 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

The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use of antistatic clothes and footwear is recommended. Do not inhale dust. Prevent contact with skin and eyes. No smoking. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Take any precaution to avoid mixing with combustibles. 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. Do not expose to sunlight. Store locked up.

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

Closed goggles which are protected against dust penetration.

Skin protection

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. Wear fire/flame resistant/retardant clothing. Hand protection: Protective gloves resistant to the product (nitrile rubber).

Respiratory protection

Use a mask with anti-dust filter 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
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Physical state	solid
Colour	white



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Odour		characteristic		
Melting point	r/freezing point	122-127 °C		
Boiling point	or initial boiling point and boiling range	data not available		
Flammability	,	data not available		
Lower and up	pper explosion limit	data not available		
Flash point		data not available		
Auto-ignition	temperature	data not available		
Decompositio	on temperature	data not available		
pН		1.2 (undiluted)		
Kinematic vis	scosity	data not available		
Solubility in	water	3000 g/l		
Partition coe	fficient n-octanol/water (log value)	data not available		
Vapour press	sure	data not available		
Density and/	or relative density	data not available		
Relative vapo	our density	data not available		
Particle chara	acteristics	data not available		
9.2. Other infor	mation			
Oxidising pro	operties	The product has an	oxidizing properties.	

SECTION 10: Stability and reactivity

10.1. Reactivity

- The substance is oxidizing.
- **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.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.



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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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Causes damage to thyroid gland through prolonged or repeated exposure.

Aspiration hazard

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

Very toxic to aquatic life.

- 12.2. Persistence and degradability not available
- 12.3. Bioaccumulative potential
- Not available.

12.4. Mobility in soil Not available

Not available.

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. 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.



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REVISIO					
	Waste management legislation Directive 2008/98/EC of the European Par Decision 2000/532/EC establishing a list of	iament and of the Council of 19 November 2008 on waste, wastes, as amended.	as amended.		
14.1.	UN 3085				
14.2.	UN proper shipping name OXIDIZING SOLID, CORROSIVE, N.O.S. (P	RIODIC ACID)			
14.3.	Transport hazard class(es) 5.1 Oxidazing substances				
14.4.	Packing group				
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.	58			
	UN number	3085			
	Classification code	OC2			
	Safety signs	5.1+8+hazardous for the environment			
	Tunnel restriction code	(E)			
	Air transport - ICAO/IATA				
	Packaging instructions passenger	558			
	Cargo packaging instructions	562			
	Marine transport - IMDG	EA SO			
	EmS (emergency plan)	F-A, S-Q			

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 (EC) 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

No chemical safety assessment has been performed for this substance.



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No chemical safety assessment has been performed for this substance.



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No chemical safety assessment has been performed for this substance.

SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet					
H271	May cause fire or explosion; strong oxidiser.					
H314	Causes severe skin burns and eye damage.					
H318	Causes serious eye damage.					
H372	Causes damage to thyroid gland through prolonged or repeated exposure.					
H400	Very toxic to aquatic life.					
Guidelines for safe handling used in the safety data sheet						
P220	Keep away from clothing and other combustible materials.					
P280	Wear protective gloves/protective clothing/eye protection/face protection.					
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
P310	Immediately call a doctor.					
Other important information	n about human health protection					
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.					
Key to abbreviations and acronyms used in the safety data sheet						
ADR	European agreement concerning the international carriage of dangerous goods by road					
Aquatic Acute	Hazardous to the aquatic environment					
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					
EINECS	European Inventory of Existing Commercial Chemical Substances					
EmS	Emergency plan					
EU	European Union					
EuPCS	European Product Categorisation System					



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Eye Dam.	Serious eye damage					
IATA	International Air Tra	International Air Transport Association				
IBC		International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals				
ICAO	International Civil A	International Civil Aviation Organization				
IMDG	International Mariti	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					
log Kow	Octanol-water partition coefficient					
OEL	Occupational Expos	Occupational Exposure Limits				
Ox. Sol.	Oxidising solid	Oxidising solid				
PBT	Persistent, bioaccur	Persistent, bioaccumulative and toxic				
PMT	Persistent, mobile a	Persistent, mobile and toxic				
ppm	Parts per million					
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals					
RID	Agreement on the transport of dangerous goods by rail					
Skin Corr.	Skin corrosion					
STOT RE	Specific target organ toxicity - repeated exposure					
UN	Four-figure identific Model Regulations	Four-figure identification number of the substance or article taken from the UN Model Regulations				
UVCB	Substances of unkn biological materials	Substances of unknown or variable composition, complex reaction products or biological materials				
VOC	Volatile organic con	Volatile organic compounds				
vPvB	Very persistent and very bioaccumulative					
vPvM	Very persistent and very mobile					
Training quide	lines					

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 3.0 replaces the SDS version from Monday, 10 October 2022. Changes were made in sections 1, 2, 11, 12, 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.