

		SAFETY I	DATA SHEET				
		according to Regulation (EC) I	No 1907/2006 (REACH)	as amended			
	Pentanal	®potassium perma	anganate 0,00	2 mol/l (N/100)			
	on date	16th September 2019					
Revis	on date	12th June 2023	Version	3.0			
SECT	ON 1: Identification	of the substance/mixture a	nd of the company/u	ndertaking			
1.1.	Product identifier		Pentanal®potass	sium permanganate 0,002 mol/l (N/100)			
	Substance / mixture		substance				
	Chemical name		potassium perma	anganate			
	CAS number		7722-64-7				
	Index number		025-002-00-9				
	EC (EINECS) number		231-760-3				
	Registration number		01-2119480139-	-34-xxxx			
1.2.	<b>Relevant identified</b>	uses of the substance or m	ixture and uses advise	ed against			
	Substance's intende	Substance's intended use					
	Chemical production, analytical chemistry, laboratory synthesis, industrial applications.						
	Substance uses adv	vised against					
		<b>rised against</b> ot be used in ways other then	those referred in Sectior	n 1.			
1.3.	The product should no	-		n 1.			
1.3.	The product should no Details of the suppl	ot be used in ways other then		n 1.			
1.3.	The product should no	ot be used in ways other then ier of the safety data sheet					
1.3.	The product should no Details of the suppl Supplier	ot be used in ways other then ier of the safety data sheet	Ing. Petr Švec -	PENTA s.r.o.			
1.3.	The product should no Details of the suppl Supplier Name or trade n	ot be used in ways other then ier of the safety data sheet	Ing. Petr Švec - Radiová 1122/1,				
1.3.	The product should no Details of the suppl Supplier Name or trade n Address	ot be used in ways other then ier of the safety data sheet name	Ing. Petr Švec -	PENTA s.r.o.			
1.3.	The product should no Details of the suppl Supplier Name or trade of Address Identification no	ot be used in ways other then ier of the safety data sheet name	Ing. Petr Švec - Radiová 1122/1, Czech Republic	PENTA s.r.o.			
1.3.	The product should no Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No	ot be used in ways other then ier of the safety data sheet name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013	PENTA s.r.o. Praha 10, 102 00			
1.3.	The product should no Details of the suppl Supplier Name or trade of Address Identification no	ot be used in ways other then ier of the safety data sheet name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 6	PENTA s.r.o. Praha 10, 102 00 81			
1.3.	The product should no <b>Details of the suppl</b> <b>Supplier</b> Name or trade of Address Identification no VAT Reg No Phone	ot be used in ways other then ier of the safety data sheet name	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 6 info@pentachem	PENTA s.r.o. Praha 10, 102 00 81 hicals.eu			
1.3.	The product should no <b>Details of the suppl</b> <b>Supplier</b> Name or trade of Address Identification no VAT Reg No Phone E-mail Web address	ot be used in ways other then ier of the safety data sheet name umber (CRN)	Ing. Petr Švec - Radiová 1122/1, Czech Republic 02096013 CZ02096013 +420 226 060 6 info@pentachem www.pentachem	PENTA s.r.o. Praha 10, 102 00 81 hicals.eu			
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# 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.

Ox. Sol. 2, H272 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 2, H361d STOT RE 2, H373 (brain) (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

## Most serious adverse physico-chemical effects

May intensify fire; oxidiser.

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

Harmful if swallowed. Suspected of damaging the unborn child. Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to the brain through prolonged or repeated exposure if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

# penta<sup>©</sup> CHEMICALS UNLIMITED

# Safety data sheet

		SAFETY I	DATA SHEET				
		according to Regulation (EC) I	lo 1907/2006 (REACH) a	as amended			
	Pentana	®potassium perma					
	ion date	16th September 2019 12th June 2023	Version	3.0			
2.2.	Label elements Hazard pictogram						
	Signal word Danger						
	Dangerous substance potassium permanganate (Index: 025-002-00-9; CAS: 7722-64-7)						
	Hazard statements	, ,					
	H272	May intensify fire; c	xidiser.				
	H302	Harmful if swallowe	d.				
	H314	Causes severe skin	burns and eye damage.				
	H361d	Suspected of damage	ging the unborn child.				
	H373			longed or repeated exposure if inhaled.			
	H410	,	c life with long lasting ef				
	Precautionary state	ements					
	P220		thing and other combust	tible materials.			
	P280	Wear protective glo	ves.				
	P303+P361+P353	IF ON SKIN (or hair with water or showed		all contaminated clothing. Rinse skin			
	P305+P351+P338		autiously with water for ad easy to do. Continue	several minutes. Remove contact rinsing.			
2.3.	Other hazards						
	Delegated Regulation	n (EU) 2017/2100 or Commis vB in accordance with Annex X	sion Regulation (EU) 2	e with the criteria set out in Commissio 018/605. Substance does not meet th o. 1907/2006 (REACH) as amended. Due			

may form explosive mixture with air.

# SECTION 3: Composition/information on ingredients

#### 3.1. Substances

**Chemical characterization** The substance specified below.

Content in Classification according to Identification numbers Note Substance name Regulation (EC) No 1272/2008 % weight substance main component Index: 025-002-00-9 potassium permanganate Ox. Sol. 2, H272 CAS: 7722-64-7 Acute Tox. 4, H302 EC: 231-760-3 Skin Corr. 1C, H314 Registration number: Eye Dam. 1, H318 Repr. 2, H361d 01-2119480139-34xxxx STOT RE 2, H373 (brain) (inhalation) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

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



# SAFETY DATA SHEET

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

# Pentanal®potassium permanganate 0,002 mol/l (N/100)

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# **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. Rinse cautiously with water for several minutes. Rinse skin with water or shower.

#### If in eyes

Do not rub your eyes – it could lead to mechanical damage of the cornea. 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.

## Most important symptoms and effects, both acute and delayed

#### If inhaled

4.2.

Inhaling dust can cause corrosion of the breathing system.

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.



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# 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

Provide sufficient ventilation. May intensify fire; oxidiser. The substance is flammable. 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

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.

# **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. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. 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

The mixture contains substances for which occupational exposure limits are set.

## 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

Protective goggles or face shield (based on the nature of the work performed).

### Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). 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.

#### **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.



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# **SECTION 9: Physical and chemical properties**

9.1.	Information on	basic physical	and chemical	properties
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Physical state	solid
Colour	dark purple
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
Other information	
not available	

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

9.2.

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

Harmful if swallowed. potassium permanganate

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	1090 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50	600 mg/kg		Rabbit	



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Skin corrosion/irritation				

Causes severe skin burns and eye damage.

# Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

## Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

## 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**

Suspected of damaging the unborn child.

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 the brain through prolonged or repeated exposure if inhaled.

## 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

Very toxic to aquatic life with long lasting effects.

#### potassium permanganate

Parameter	Value	Exposure time	Species	Environment
LC <sup>50</sup>	0.47 mg/l	96 hours	Fish (Poecilia reticulata)	
EC50	0.06 mg/l	48 hours	Daphnia (Daphnia magna)	

# 12.2. Persistence and degradability

## 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

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



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# 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**

	ON 14: Transport information				
14.1.	UN number or ID number				
	UN 1490				
14.2.	UN proper shipping name				
	POTASSIUM PERMANGANATE				
14.3.					
	5.1 Oxidazing substances				
14.4.	Packing group				
	II - substances presenting medium danger				
14.5.	Environmental hazards				
	not relevant				
14.6.					
	Reference in the Sections 4 to 8.				
14.7.	······································				
	not relevant				
	Additional information				
	Hazard identification No.	50			
	UN number	1490			
	Classification code	02			
	Safety signs	5.1+hazardous for the environment			
		5.1			
	Air transport - ICAO/IATA				
	Packaging instructions passenger	558			
	Cargo packaging instructions	562			
	Marine transport - IMDG				
	EmS (emergency plan)	F-H, S-Q			



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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

No chemical safety assessment has been performed for this substance.

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	phrases used in the safety data sheet
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to the brain through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Guidelines for safe ha	ndling used in the safety data sheet
P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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# Safety data sheet

	SAFETY I	DATA SHEE	Т				
	according to Regulation (EC) N	lo 1907/2006 (REAC	H) as amended				
Pentana	Pentanal®potassium permanganate 0,002 mol/l (N/100)						
Creation date Revision date	16th September 2019 12th June 2023	Version	3.0				
P305+P351+P338		autiously with water index of the second s	for several minutes. Remove contact ue rinsing.				
Other important in	formation about human hea		20 · · · · · · · · · · · · · · · · · · ·				
	ot be - unless specifically appro . The user is responsible for adh		urer/importer - used for purposes other than health protection regulations.				
-	ns and acronyms used in the						
ADR	European agreemer road	t concerning the inte	rnational carriage of dangerous goods by				
BCF	Bioconcentration Fa						
CAS	Chemical Abstracts						
CLP	substance and mixt	ures	ication, labelling and packaging of				
EC		or each substance lis					
EC₅o			affected 50% of the population				
EINECS	. ,	of Existing Commerce	ial Chemical Substances				
EmS	Emergency plan						
EU	European Union						
EuPCS		ategorisation System					
IATA	International Air Tra	Insport Association					
IBC	International Code I Dangerous Chemica		And Equipment of Ships Carrying				
ICAO	International Civil A	viation Organization					
IMDG	International Maritir	ne Dangerous Goods					
IMO	International Maritir	ne Organization					
INCI	International Nome	nclature of Cosmetic	Ingredients				
ISO	International Organ	ization for Standardiz	ation				
IUPAC	_	of Pure and Applied (					
LC50			nich it can be expected death of 50% of the				
LD50		stance in which it ca	n be expected death of 50% of the				
log Kow	Octanol-water parti	ion coefficient					
OEL	Occupational Expos						
PBT	Persistent, Bioaccur						
ppm	Parts per million						
REACH	-	tion. Authorisation a	nd Restriction of Chemicals				
RID	-	ransport of dangerou					
UN	-		substance or article taken from the UN				
UVCB		own or variable comp	osition, complex reaction products or				
VOC	Volatile organic com	pounds					
vPvB		very Bioaccumulative	2				
Acute Tox.	Acute toxicity						
Aquatic Acute	Hazardous to the ac	uatic environment					
Aquatic Chronic		juatic environment (c	hronic)				
Eye Dam.	Serious eye damage						
Ox. Sol.	Oxidising solid						
Repr.	Reproductive toxicit	v					
Skin Corr.	Skin corrosion	7					
STOT RE		n toxicity - repeated	exposure				
Training guideline		i concity repeated					
	J						



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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 06 October 2022. Changes were made in sections 2, 12, 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.