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		Pip	peridine			
Creat	ion date	20th December 2019				
Revis	ion date	07th May 2024	Version	4.0		
SECT	ION 1: Identification	of the substance/mixture a	and of the company/un	dertaking		
1.1.	Product identifier		Piperidine	2		
	Substance / mixture		substance			
	Chemical name		piperidine			
	CAS number		110-89-4			
	Index number		613-027-00-3			
	EC (EINECS) number		203-813-0			
	Registration number		01-2119962908-2	20-xxxx		
1.2.	Relevant identified	uses of the substance or n	nixture and uses advise	d against		
	Substance's intended use					
	Chemical production,	analytical chemistry, laborate	ory synthesis, industrial ap	plications.		
	Substance uses adv	vised against				
	The product should no	ot be used in ways other than	those referred in Section	1.		
1.3.	-	-		1.		
1.3.	-	-		1.		
1.3.	Details of the suppl Supplier	ier of the safety data shee	t			
1.3.	Details of the suppl Supplier	ier of the safety data shee	<b>t</b> Ing. Petr Švec - P	'ENTA s.r.o.		
1.3.	Details of the suppl Supplier Name or trade	ier of the safety data shee	<b>t</b> Ing. Petr Švec - P	'ENTA s.r.o.		
1.3.	Details of the suppl Supplier Name or trade Address	<b>ier of the safety data shee</b> name	<b>t</b> Ing. Petr Švec - P Radiová 1122/1, I	'ENTA s.r.o.		
1.3.	<ul> <li>2. Relevant identified uses of the substance or mixture and uses advised against</li> <li>Substance's intended use</li> <li>Chemical production, analytical chemistry, laboratory synthesis, industrial applications.</li> <li>Substance uses advised against</li> <li>The product should not be used in ways other than those referred in Section 1.</li> <li>Betails of the supplier of the safety data sheet</li> <li>Supplier</li> <li>Name or trade name</li> <li>Address</li> <li>Identification number (CRN)</li> <li>VAT Reg No</li> <li>Phone</li> <li>F-mail</li> </ul>					
1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No	<b>ier of the safety data shee</b> name	t Ing. Petr Švec - P Radiová 1122/1, I Czech Republic 02096013 CZ02096013	PENTA s.r.o. Praha 10, 102 00		
1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No Phone	<b>ier of the safety data shee</b> name	t Ing. Petr Švec - P Radiová 1122/1, I Czech Republic 02096013 CZ02096013 +420 226 060 68	PENTA s.r.o. Praha 10, 102 00 1		
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1.3.	Details of the suppl Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address	<b>ier of the safety data shee</b> name	t Ing. Petr Švec - P Radiová 1122/1, I Czech Republic 02096013 CZ02096013 +420 226 060 68 info@pentachemic www.pentachemic	PENTA s.r.o. Praha 10, 102 00 1 cals.eu		
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## Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H311+H331 Skin Corr. 1B, H314 Eye Dam. 1, H318

Most serious adverse physico-chemical effects Highly flammable liquid and vapour. Most serious adverse effects on human health and the environment Causes severe skin burns and eye damage. Harmful if swallowed. Causes serious eye damage. Toxic in contact with skin or if inhaled.

## 

# Safety data sheet

		SAFETY I	DATA SHEET				
		according to Regulation (EC)	No 1907/2006 (REACH) a	as amended			
Piperidine							
Creati	on date	20th December 2019					
Revisi	on date	07th May 2024	Version	4.0			
2.2.	Label elements Hazard pictogram						
	Signal word Danger Dangerous substar	nce					
	piperidine (Index: 613-027-00-						
	Hazard statements H225						
	H225 H302	Highly flammable li Harmful if swallowe					
	H314		burns and eye damage.				
	H311+H331		h skin or if inhaled.				
	Precautionary stat		II SKIII UI II IIIIdieu.				
	Piecautionaly stat		at, hot surfaces, sparks,	open flames and other ignition sources.			
	P240	5	ontainer and receiving ed	quipment.			
	P280			eye protection/face protection.			
	P301+P330+P331		inse mouth. Do NOT indu				
	P302+P352	IF ON SKIN: Wash	with plenty of water and	soap.			
	P304+P340			d keep comfortable for breathing.			
	P305+P351+P338	IF IN EYES: Rinse of	-	several minutes. Remove contact			
	P308+P311	IF exposed or conce	erned: Call a POISON CE	NTER.			
	D402 - D222	Store in a well-year		inor tightly closed			
	P403+P233	Store in a weil-veni	tilated place. Keep contai	mer lightly closed.			

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
	substance main component			
Index: 613-027-00-3 CAS: 110-89-4 EC: 203-813-0 Registration number: 01-2119962908-20- xxxx	piperidine	>99	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H311+H331 Skin Corr. 1B, H314 Eye Dam. 1, H318	

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



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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

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 out the mouth with water and provide 2-5 dL of water. DO NOT INDUCE VOMITING! Danger of esophageal and gastric perforation! Provide medical treatment.

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

#### If inhaled

Inhaling vapours 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.

#### 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. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.



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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. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. 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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

#### 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 formation of gases and vapours in flammable or explosive concentrations. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. 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. 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. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

#### 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. Keep container tightly closed. Keep cool.

#### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

## 7.3. Specific end use(s)

not available

#### **SECTION 8: Exposure controls/personal protection**

#### Control parameters

#### DNEL

8.1.

piperidine					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	7.04 mg/m <sup>3</sup>	Chronic effects local		

#### PNEC

piperidine					
Route of exposure	Value	Value determination	Source		
Drinking water	0.038 mg/l				
Marine water	0.0038 mg/l				
Sea sediments	0.0965 mg/kg				
Freshwater sediment	0.965 mg/kg				



# SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Piperidine Creation date 20th December 2019 Revision date 07th May 2024 Version 4.0

piperidine				
Route of exposure	Value	Value determination	Source	
Soil (agricultural)	0.17 mg/kg			

#### 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 (butyl rubber, 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 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.

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

#### 9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	-10.8 °C
Boiling point or initial boiling point and boiling range	106 °C
Flammability	data not available
Lower and upper explosion limit	
bottom	1.5 %
upper	10.3 %
Flash point	16 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	12.6 (undiluted at 20 °C)
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	
Density	0.86 g/cm <sup>3</sup>
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid
Other information	
not available	

not available

9.2.



		according to Regulation (EC)	) No 1907/2006 (REACH) a	as amended	
		Pi	peridine		
Creatio	on date	20th December 2019			
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SECTI	ON 10: Stability	and reactivity			
	Reactivity				
	The substance is	highly flammable.			
10.2.	Chemical stabi	lity			
	The product is st	table under normal conditions.			
10.3.	Possibility of h	azardous reactions			
	Unknown.				
10.4.	Conditions to a	void			
	The product is s against frost.	table and no degradation occurs	under normal use. Protec	against flames, sparks, ov	verheating an
10.5.	5	naterials			
	Protect against s	strong acids, bases and oxidizing a	agents.		
10.6.	-	omposition products	-		
	Not developed u high temperatur	nder normal uses. Dangerous out	tcomes such as carbon m	pnoxide and carbon dioxide	are formed a

#### **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. Toxic in contact with skin or if inhaled.

## piperidine

piperianie						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		740 mg/kg		Rat	
Dermal	LD50		275 mg/kg		Rabbit	
Inhalation	LC50	OECD 403	4.8 mg/l	48 hours	Rat	

#### 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

No data available for the substance. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

#### Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

#### **Reproductive toxicity**

No data available for the substance. Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.



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## Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

#### Aspiration hazard

No data available for the substance. 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

No data available for the substance. Based on available data the classification criteria are not met.

**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 2401

- **14.2. UN proper shipping name** PIPERIDINE
- 14.3. Transport hazard class(es)
- 8 Corrosive substances 14.4. Packing group
  - 4.4. Packing group I

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

# Safety data sheet

	SAFETY DATA SHEET											
		according to Regulation (	EC) No 1907/2006 (REACH) a	as amended								
	Piperidine											
Creation date20th December 2019Revision date07th May 2024		Version	4.0									
14.5. 14.6. 14.7.	not relevant Special precau Reference in the Maritime trans not relevant Additional info	utions for user e Sections 4 to 8. sport in bulk according to IM prmation ntification No. r on code	883 2401 CF1 8+3 8+3									
	Tunnel res	triction code	(D/E)									
	Cargo pack Marine transp	instructions passenger aging instructions	850 854 F-E, S-C									

#### **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 been carried out.

#### **SECTION 16: Other information**

A list of standard risk phra	ses used in the safety data sheet
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H311+H331	Toxic in contact with skin or if inhaled.
Guidelines for safe handlin	g used in the safety data sheet
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.

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	SAFETY DATA SHEET
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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
Other important i	nformation about human health protection
as per the Section :	not be - unless specifically approved by the manufacturer/importer - used for purposes other t 1. The user is responsible for adherence to all related health protection regulations.
_	ons and acronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
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
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	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
LC50	Lethal concentration of a substance in which it can be expected death of 50% of t population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.



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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 4.0 replaces the SDS version from 16 May 2023. Changes were made in sections 2 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.