

		PENE	SAL SPRAY	
	ion date	29. May 2019		
	ion date	08. January 2018	Version	2.0
SECT: 1.1.	ION 1: Identific Product ident Substance / m		and of the company/u PENESAL SPRAY mixture	
1.2.	<b>Relevant ider</b> Mixture's inten	ntified uses of the substance or ided use	mixture and uses advise Penetration spra	-
	Mixture uses a	dvised against	The product shour referred in Section	uld not be used in ways other then those on 1.
1.3.	Details of the Distributor	e supplier of the safety data she	et	
	Name or	trade name	CERTA TRADE sp	ool. s r.o.
	Address		Limbašská cesta	4, Pezinok, 90203
			Slovakia	
	Identifica	ation number (CRN)	46060898	
	VAT Reg	No	2023255476	
	Phone		+421 33 642 30	17
	E-mail		certatrade@certa	atrade.sk
	Web add	Iress	www.certatrade.	sk
	Importer			
	Name or trade name		CERTA TRADE sp	ool. s r.o.
	Address		Limbašská cesta	4, Pezinok, 90203
			Slovakia	
	Identifica	ation number (CRN)	46060898	
	VAT Reg	No	2023255476	
	Phone		+421 33 642 30	17
	E-mail		certatrade@certa	atrade.sk
	Web add	Iress	www.certatrade.	sk
	Manufacture			
		trade name	AEROTEC GROUP	
	Address			Praha 5 Jinonice, 158 00
			Czech Republic	
		ation number (CRN)	05121311	
	Phone		+420 605 050 0	50
	E-mail		info@aerotec.cz	
		erson responsible for the safety		
	Name		AEROTEC GROUP	Pa.s.
	E-mail		info@aerotec.cz	
1.4.		elephone number		
		mation centre, Na Bojišti 1, Praha, on on health risks only - acute pois		stop +420 224 919 293 or +420 224 91 nals

#### **SECTION 2: Hazards identification**

#### Substance or mixture classification 2.1.

Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.

Aerosol 1, H222, H229 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412

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



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#### Most serious adverse physico-chemical effects

### Extremely flammable aerosol. Pressurised container: May burst if heated.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements





Signal word

Danger

#### Hazardous substances

Distillates (petroleum), heavy hydrocracked Naphtha (petroleum), hydrotreated light benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts polysulfides, di-tert-Bu benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched Hazard statements H222 Extremely flammable aerosol.

H229	Pressurised container:	May burst if heated.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

r recaucionary s	statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P301+P310	IF SWALLOWED: Immediately call a.
P331	Do NOT induce vomiting.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

### 2.3. Other hazards

Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.



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**SECTION 3: Composition/information on ingredients** 

3.2. Mixtures

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Revision date

#### Chemical characterization

Mixture of substances specified below and additives.

# Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 649-453-00-1 CAS: 64741-76-0 EC: 265-077-7 Registration number: 01-2119486951-26	Distillates (petroleum), heavy hydrocracked	15-30	Asp. Tox. 1, H304	1, 3, 5
CAS: 68037-01-4 EC: 500-183-1	dec-1-ene, homopolymer, hydrogenated	10-20		
Index: 649-328-00-1 CAS: 64742-49-0 EC: 265-151-9	Naphtha (petroleum), hydrotreated light	1-10	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	2, 4
EC: 939-603-7 Registration number: 01-2119978241-36	benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	<1,5	Skin Sens. 1, H317	5
CAS: 12001-85-3 EC: 234-409-2	naphthenic acids, zinc salts	<1		
CAS: 90480-91-4 EC: 291-829-9	phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased	<1	Aquatic Chronic 4, H413	
CAS: 68937-96-2 EC: 273-103-3	polysulfides, di-tert-Bu	<1	Skin Sens. 1, H317 Aquatic Chronic 3, H412	
CAS: 4259-15-8 EC: 224-235-5	zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	<1	Eye Dam. 1, H318 Aquatic Chronic 2, H411	
CAS: 68649-42-3 EC: 272-028-3	phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	<1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	
CAS: 69011-36-5 EC: 500-241-6 Registration number: 01-2119976362-32	isotridecanol, ethoxylated	<1	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 85117-47-1 EC: 285-597-8 Registration number: 01-2119985162-35	benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts	<1	Skin Sens. 1, H317	5
EC: 931-384-6 Registration number: 01-2119493620-38	reaction products of bis(4-methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched	<1	Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411	5
CAS: 112-90-3 EC: 204-015-5	(z)-octadec-9-enylamine	<1	Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400, M=10 Aquatic Chronic 1, H410, M=10	



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Notes

- 1 Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.
- 2 Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- 3 Fulfilled Note L
- 4 Fulfilled Note P
- 5 Substance of unknown or variable composition, complex reaction products or biological materials UVCB.

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

If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet.

### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### Eye contact

Rinse the eyes immediately with a flow of running water, open the eyelids wide (also using force if needed); remove contact lenses immediately if worn by the person. Rinsing should continue at least for 10 minutes. In case of problems seek for medical, professional treatment if possible.

#### Ingestion

DO NOT INDUCE VOMITING. Provide medical treatment.

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

#### Inhalation

May be fatal if swallowed and enters airways.

#### Skin contact

Irritates the skin. May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation.

#### Ingestion

May be fatal if swallowed and enters airways.

# 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 foam, carbon dioxide, multi-purpose dry powder, water mist Unsuitable extinguishing media water - full jet

#### 5.2. Special hazards arising from the substance or mixture

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases (e.g. hydrocarbons). Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

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. Wear personal protective equipment. Follow the instructions in Sections 7 and 8.

#### 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

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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 Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the product, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the product, wash the contaminated site with plenty of water or another suitable cleaning material.

#### 6.4. Reference to other sections

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 areas where it is not in contact with open fire and other ignition sources. Don't smoke. Protect against direct sunlight. Electrostatic charge may be formed during use; use only earthed piping (tubing) when repumping. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

#### 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. Keep away from sources of ignition and heat. Store along with food, beverages and animal feed.

Packaging type

iron, steel <40 °C

# Storage temperature7.3. Specific end use(s)

not available

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

### 8.1. Control parameters

none

DNEL

reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	12.5 mg/kg	Local chronic effects	
Consumers	Dermal	6.25 mg/kg	Local chronic effects	
Workers	Inhalation	8.56 mg/m <sup>3</sup>	Local chronic effects	
Consumers	Inhalation	2.2 mg/m <sup>3</sup>	Local chronic effects	
Consumers	Oral	0.25 mg/kg/24hour	Local chronic effects	

PNEC

reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched

Route of exposure	Value	Determining method
Freshwater environment	0.0012 mg/l	
Seawater	0.00012 mg/l	
Freshwater sediment	3.13 mg/kg	
Sea sediments	0.313 mg/kg	



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reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 branched

Route of exposure	Value	Determining method
Soil (agricultural)	2.54 mg/kg	

#### 8.2. Exposure controls

Follow usual measures 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.

#### Skin protection

Hand protection: Protective gloves resistant against the product, suitable material: nitrile rubber, neoprene. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Other protection: Protective clothing. Contaminated skin should be washed thoroughly.

#### **Respiratory protection**

Mask with a filter type A against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of toxic substances are exceeded or in a poorly ventilated environment.

#### 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

Appearance	spray
Physical state	liquid at 20°C
color	light brown
Odour	characteristic, after petrol
Odour threshold	data not available
рН	data not available
Melting point/freezing point	<-12 °C
Initial boiling point and boiling range	data not available
Flash point	<0 °C
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	1.5 %
upper	9 %
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available
Other information	
Density	0.7-0.8 g/cm <sup>3</sup>
ignition temperature	data not available

9.2.



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

# **PENESAL SPRAY**

Creation date 29. May 2019 2.0 Revision date 08. January 2018 Version SECTION 10: Stability and reactivity 10.1. Reactivity not available 10.2. Chemical stability The product is stable under normal conditions. 10.3. Possibility of hazardous reactions The product is stable under normal conditions. When exposed to high temperatures there is a risk of explosion. Fumes can combine with air to form an explosive mixture. 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 Keep away from strong acids, strong oxidants, combustible materials. 10.6. Hazardous decomposition products Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, hydrocarbons.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### Acute toxicity

May be fatal if swallowed and enters airways.

dec-1-ene, homopolymer, hydrogenated

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD50	OECD 423	>5000 mg/kg		Rat	F/M
Inhalation	LC50	OECD 403	>5.2 mg/l	4 hour	Rat	F/M

#### naphthenic acids, zinc salts

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD50		4920 mg/kg		Rat	

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### 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.



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### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

# Aspiration hazard

May be fatal if swallowed and enters airways.

#### **SECTION 12: Ecological information**

12.1. Toxicity

#### Acute toxicity

Harmful to aquatic life with long lasting effects.

phosphorodithioic acid, 0,0-di-C1-14-alkyl esters, zinc salts

Parameter	Method	Value	Time of exposure	Species	Environme nt	Determining method
LC50		1-5 mg/l	96 hour	Fishes (Pimephales promelas)		Static system
LC50		10-35 mg/l	96 hour	Fishes (Pimephales promelas)		Static system

#### polysulfides, di-tert-Bu

Parameter	Method	Value	Time of exposure	Species	Environme nt	Determining method
LC50	OECD 203	0.088 mg/l	96 hour	Fishes		
EC50	OECD 202	0.24 mg/l	48 hour	Daphnia (Daphnia magna)		
EC50	OECD 201	2.45 mg/l	72 hour	Other aquatic organisms		

## 12.2. Persistence and degradability

#### Biodegradability

polysulfides, di-tert-Bu

Parameter	Value	Time of exposure	Environment	Result
	13 %			
not available				

# 12.3. Bioaccumulative potential

not available

#### 12.4. Mobility in soil

polysulfides, di-tert-Bu

Parameter	Method	Value	Environment	Surrounding temperature
Log Koc	OECD 121	8.5		

not available

## 12.5. Results of PBT and vPvB assessment

### The product is not classified as PBT or vPvB.

### 12.6. Other adverse effects

not available

#### **SECTION 13: Disposal considerations**



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### 13.1. Waste treatment methods

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 an authorised person for waste removal (specialized company) authorised 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. Hazard of environmental contamination; remove waste in accordance with local and/or national regulations.

#### Waste management legislation

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

- 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils
- 14 06 03 other solvents and solvent mixtures

#### Packaging waste type code

- 15 01 10 packaging containing residues of or contaminated by dangerous substances
- 15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

#### **SECTION 14: Transport information**

- 14.1. UN number
  - UN 1950
- 14.2. UN proper shipping name AEROSOLS
- 14.3. Transport hazard class(es)
- 2 Gases
- 14.4. Packing group not available
- **14.5.** Environmental hazards not available
- **14.6.** Special precautions for user Reference in Sections 4 to 8.

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not available

#### **Additional information**

Hazard identification No.	(Kemler Code)
UN number	1950
Classification code	5F
Safety signs	2.1
	2
Marine transport - IMDG	
EmS (emergency plan)	F-D, S-U
MFAG	620



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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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 80/2014 Coll., amending the Decree No. 194/2001 Coll., laying down technical requirements for aerosol sprays as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

#### 15.2. Chemical safety assessment

not available

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

A list of standard ris	sk phrases used in the safety data sheet
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Guidelines for safe	handling used in the safety data sheet
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P301+P310	IF SWALLOWED: Immediately call a.
P331	Do NOT induce vomiting.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.
Other important inf	ormation about human health protection
	be - unless specifically approved by the manufacturer/importer - used for purposes other than user is responsible for adherence to all related health protection regulations.
Key to abbreviation	s 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
DNEL	Derived no-effect level



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Identification code for each substance listed in EINECS Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Emergency plan European Union International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
Concentration of a substance when it is affected 50% of the population European Inventory of Existing Commercial Chemical Substances Emergency plan European Union International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
European Inventory of Existing Commercial Chemical Substances Emergency plan European Union International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
Emergency plan European Union International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
European Union International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
International Air Transport Association International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
Concentration causing 50% blockade International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
International Civil Aviation Organization International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
International Maritime Dangerous Goods International Nomenclature of Cosmetic Ingredients International Organization for Standardization
International Nomenclature of Cosmetic Ingredients International Organization for Standardization
International Organization for Standardization
Lethal concentration of a substance in which it can be expected death of 50% of the population
Lethal dose of a substance in which it can be expected death of 50% of the population
Lowest observed adverse effect concentration
Lowest observed adverse effect level
Octanol-water partition coefficient
International Convention for the Prevention of Pollution From Ships
No observed adverse effect concentration
No observed adverse effect level
No observed effect concentration
No observed effect level
Occupational Exposure Limits
Persistent, Bioaccumulative and Toxic
Predicted no-effect concentration
Parts per million Registration Evaluation Authorization and Restriction of Chamicals
Registration, Evaluation, Authorisation and Restriction of Chemicals
Agreement on the transport of dangerous goods by rail
Four-figure identification number of the substance or article taken from the UN Model Regulations
Substances of unknown or variable composition, complex reaction products or biological materials
Volatile organic compounds
Very Persistent and very Bioaccumulative
Acute toxicity
Aerosol
Hazardous to the aquatic environment
Hazardous to the aquatic environment
Aspiration hazard
Serious eye damage
Eye irritation
Flammable liquid
Skin corrosion
Skin irritation
Skin sensitization
Specific target organ toxicity - repeated exposure
Specific target organ toxicity - single exposure
FLLLG] [ [ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]

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



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

# PENESAL SPRAY

Revision date	08. Janua	ry 2018	Version	2.0	
Creation date	29. May 2	019			

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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). 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 2.0 replaces the SDS version from 18.10.2016. Changes were made in sections 2, 13, 15 and 16.

#### 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.