

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

2.1. Substance or mixture classification

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.

### 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





	according to Regulation (EC)		
	PENE	SAL SPRAY	
reation date	18. October 2016		
evision date	08. January 2018	Version	2.0
Hazardous sub	ostances		
	pleum), heavy hydrocracked		
1 (I	eum), hydrotreated light		
polysulfides, di-	acid, di-C10-14-alkyl derivs., calc	ium saits	
	C10-14-alkyl derivs., fractionation	bottoms, intermediate cu	t. sulfonated, sodium salts
			sphorus oxide, propylene oxide and
amines, C12-14	branched		
Hazard statem			
H222	Extremely flammable aeroso	ol.	
H229	Pressurised container: May	burst if heated.	
H315	Causes skin irritation.		
H317	May cause an allergic skin r	eaction.	
H319	Causes serious eye irritatior	1.	
H412	Harmful to aquatic life with	long lasting effects.	
Precautionary	statements		
P102	Keep out of reach of childre	n.	
P210	Keep away from heat, hot s smoking.	urfaces, sparks, open flam	es and other ignition sources. No
P251	Do not pierce or burn, even	after use.	
P301+P310	IF SWALLOWED: Immediate	ly call a.	
P331	Do NOT induce vomiting.		
P410+P412	Protect from sunlight. Do no	expose to temperatures	exceeding.
P501	Dispose of contents/contain waste or by returning to the	, 5	he person authorized to dispose of

### 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.

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

### 3.2. Mixtures

### 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 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, 4
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	2,5
EC: 939-603-7 Registration number: 01-2119978241-36	benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	<1,5	Skin Sens. 1, H317	3
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	



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

	PENESAL S	PRAY		
Creation date Revision date	18. October 2016 08. January 2018	Version	2.0	
Identification numbers			Classification according to Regulation (EC) No 1272/2008	Note.
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, 0,0-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	3
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, C12-1- branched		Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411	3
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	

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 (Table 3.1) or the S -phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- 3 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.
- 4 Fulfilled Note L
- 5 Fulfilled Note P

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.





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

## PENESAL SPRAY

18. October 2016					
08. January 2018	Version	2.0			
			08. January 2018 Version 2.0		

### Eve 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.

### Indestion

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**

#### Extinguishing media 5.1.

### 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.

### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures 6.1.

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

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.



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

# PENESAL SPRAY

Creation date	18. October 2016			
Revision date	08. January 2018	Version	2.0	

## 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

Packaging type Storage temperature

<40 °C

## 7.3. 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	
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.





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

# **PENESAL SPRAY**

Creation date	18. October 2016			
Revision date	08. January 2018	Version	2.0	

### **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	
	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
9.2.	Other information	
	Density	0.7-0.8 g/cm <sup>3</sup>
	ignition temperature	data not available
	- ,	

### **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.



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

# PENESAL SPRAY

Creation date	18. October 2016			
Revision date	08. January 2018	Version	2.0	

### 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	LD 50	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.

### 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.



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

# **PENESAL SPRAY**

Creation date 18. October 2016 Revision date 08. January 2018 Version 2.0

**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	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		
EC₅o	OECD 202	0.24 mg/l	48 hour	Daphnia (Daphnia magna)		
EC₅o	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 Surrounding Parameter Method Value Environment 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**

### 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.





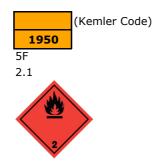
		according to Regulation (EC)	) No 1907/2006 (REACH)	as amended	
		PENE	SAL SPRAY		
Creation	date	18. October 2016			
Revision	date	08. January 2018	Version	2.0	
	Legislation		lad Daaraa Na 282/2001	Coll on dotails regarding	wasta handling
ā		ctive 75/442/EEC on waste, as amenc . Decree No. 93/2016 Coll., (waste c mended.			
l l	Waste type	code			
1	13 02 05	mineral-based non-chlorinated eng	ine, gear and lubricating o	oils	
1	14 06 03	other solvents and solvent mixtures	5		
I	Packaging	waste type code			
1	15 01 10	packaging containing residues of or	contaminated by danger	ous substances	
1	15 01 11	metallic packaging containing a c empty pressure containers	langerous solid porous i	matrix (for example asbe	stos), including
SECTIO	N 14: Trans	sport information			
	<b>UN number</b> UN 1950				
	<b>UN proper s</b> AEROSOLS	shipping name			

- 14.3. Transport hazard class(es) Gases 2
- 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. UN number Classification code Safety signs



F-D, S-U

620

### Marine transport - IMDG EmS (emergency plan) MFAG





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

## **PENESAL SPRAY**

Creation date	18. October 2016			
Revision date	08. January 2018	Version	2.0	

### 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 ri	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	formation about human health protection
	t 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	is 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



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

## PENESAL SPRAY

	PENESAL SPRAY
Creation date	18. October 2016
Revision date EC	08. January 2018 Version 2.0   Identification code for each substance listed in EINECS
EC EC50	
EINECS	Concentration of a substance when it is affected 50% of the population
	European Inventory of Existing Commercial Chemical Substances
EmS EU	Emergency plan
IATA	European Union
IBC	International Air Transport Association
	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
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 the population
LDso	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
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
Aerosol	Flammable aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

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**

Creation date 18. October 2016 Revision date 08. January 2018 2.0 Version 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.

