

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : SPREJ ZA LAŽJI VŽIG MOTORJA

Product code : 089011

Unique Formula Identifier (UFI) : U4F9-406C-V00H-5XVH

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Solvent mixture  
Professional use product

Recommended restrictions on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : Würth d.o.o.  
Brodišče 25  
1236 Trzin

Telephone : +386(0) 1 530 57 80

Telefax : +386(0) 1 530 57 90 / 92

E-mail address of person responsible for the SDS : prodsafe@wuerth.com

#### 1.4 Emergency telephone number

+386(0) 1 530 57 89. +386 112

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

ways.

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH019 May form explosive peroxides.  
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.  
**Storage:**  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

#### Hazardous components which must be listed on the label:

Diethyl ether  
Pentane  
Acetone  
Cyclohexane

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

May displace oxygen and cause rapid suffocation.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Diethyl ether	60-29-7 200-467-2 603-022-00-4	Flam. Liq. 1; H224 Acute Tox. 4; H302 STOT SE 3; H336 EUH019, EUH066  Acute toxicity estimate  Acute oral toxicity: 1.200 mg/kg	>= 20 - < 30
Pentane	109-66-0 203-692-4 601-006-00-1	Flam. Liq. 2; H225 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 10 - < 20
Acetone	67-64-1 200-662-2 606-001-00-8	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 1 - < 10
Cyclohexane	110-82-7 203-806-2 601-017-00-1	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute	>= 2,5 - < 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
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Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	aquatic toxicity): 1 >= 1 - < 2,5
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Not Assigned 01-2119486291-36	Flam. Liq. 2; H225 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 1 - < 2,5
n-Hexane	110-54-3 203-777-6 601-037-00-0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361f STOT SE 3; H336 STOT RE 2; H373 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411  specific concentration limit STOT RE 2; H373 >= 5 %	>= 0,25 - < 1

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.  
Remove contaminated clothing and shoes.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.

In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
If vomiting occurs have person lean forward.  
Call a physician or poison control centre immediately.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.

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

Risks : Gas reduces oxygen available for breathing.  
  
May be fatal if swallowed and enters airways.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

# SAFETY DATA SHEET

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Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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### SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Ventilate the area.  
Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

#### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.  
Soak up with inert absorbent material.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.  
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Avoid breathing spray.  
Do not swallow.  
Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Protect against light.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.  
Do not spray on an open flame or other ignition source.
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep cool. Protect from sunlight.
- Advice on common storage : Do not store with the following product types:  
Self-reactive substances and mixtures  
Organic peroxides  
Oxidizing agents  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures, which in contact with water, emit flammable gases  
Explosives  
Gases

### 7.3 Specific end use(s)

- Specific use(s) : No data available

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



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Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Butane	106-97-8	MV	1.000 ppm 2.400 mg/m <sup>3</sup>	SI OEL	
		KTV	4.000 ppm 9.600 mg/m <sup>3</sup>	SI OEL	
Diethyl ether	60-29-7	TWA	100 ppm 308 mg/m <sup>3</sup>	2000/39/EC	
		Further information: Indicative			
		STEL	200 ppm 616 mg/m <sup>3</sup>	2000/39/EC	
		Further information: Indicative			
		MV	100 ppm 308 mg/m <sup>3</sup>	SI OEL	
		KTV	200 ppm 616 mg/m <sup>3</sup>	SI OEL	
Propane	74-98-6	MV	1.000 ppm 1.800 mg/m <sup>3</sup>	SI OEL	
		KTV	4.000 ppm 7.200 mg/m <sup>3</sup>	SI OEL	
Pentane	109-66-0	TWA	1.000 ppm 3.000 mg/m <sup>3</sup>	2006/15/EC	
		Further information: Indicative			
		MV	1.000 ppm 3.000 mg/m <sup>3</sup>	SI OEL	
		KTV	2.000 ppm 6.000 mg/m <sup>3</sup>	SI OEL	
Acetone	67-64-1	TWA	500 ppm 1.210 mg/m <sup>3</sup>	2000/39/EC	
		Further information: Indicative			
		KTV	1.000 ppm 2.420 mg/m <sup>3</sup>	SI OEL	
		MV	500 ppm 1.210 mg/m <sup>3</sup>	SI OEL	
Cyclohexane	110-82-7	TWA	200 ppm 700 mg/m <sup>3</sup>	2006/15/EC	
		Further information: Indicative			
		MV	200 ppm 700 mg/m <sup>3</sup>	SI OEL	
		KTV	800 ppm 2.800 mg/m <sup>3</sup>	SI OEL	
Isobutane	75-28-5	KTV	4.000 ppm 9.600 mg/m <sup>3</sup>	SI OEL	
		MV	1.000 ppm 2.400 mg/m <sup>3</sup>	SI OEL	



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according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

n-Hexane	110-54-3	TWA	20 ppm 72 mg/m <sup>3</sup>	2006/15/EC
Further information: Indicative				
		MV	20 ppm 72 mg/m <sup>3</sup>	SI OEL
Further information: Toxic for reproduction - may cause harm to the unborn child - category 2				
		KTV	160 ppm 576 mg/m <sup>3</sup>	SI OEL
Further information: Toxic for reproduction - may cause harm to the unborn child - category 2				

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Acetone	67-64-1	Acetone: 80 mg/l (Urine)	End of shift	SI BAT
Cyclohexane	110-82-7	1,2-cyclohexanediol: 150 mg/g creatinine (Urine)	during long-term exposure: at the end of the work shift after several consecutive work-days, End of shift	SI BAT
n-Hexane	110-54-3	2,5-hexandion and 4,5-dihydroxy-2-hexanone: 5 mg/l (Urine)	End of shift	SI BAT

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Pentane	Workers	Inhalation	Long-term systemic effects	3000 mg/m <sup>3</sup>
		Skin contact	Long-term systemic effects	432 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	643 mg/m <sup>3</sup>
		Skin contact	Long-term systemic effects	214 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	214 mg/kg bw/day
		Ingestion	Long-term systemic effects	214 mg/kg bw/day
Acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m <sup>3</sup>
		Inhalation	Acute local effects	2420 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
		Inhalation	Long-term systemic effects	200 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	62 mg/kg bw/day
		Ingestion	Long-term systemic effects	62 mg/kg bw/day

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

Hydrocarbons, C6, isoalkanes, <5% n-hexane	Workers	Inhalation	Long-term systemic effects	5306 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	13964 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1131 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	1377 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1301 mg/kg bw/day
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Workers	Inhalation	Long-term systemic effects	5306 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	13964 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1131 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	1377 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1301 mg/kg bw/day
Diethyl ether	Workers	Inhalation	Long-term systemic effects	308 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	616 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	44 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	54,5 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	15,6 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	15,6 mg/kg bw/day
Cyclohexane	Workers	Inhalation	Acute systemic effects	700 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	700 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	2016 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	700 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	700 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	412 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	206 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	206 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	1186 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic	59,4 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
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			effects	bw/day
n-Hexane	Workers	Skin contact	Long-term systemic effects	11 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	75 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	5,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	16 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Pentane	Fresh water	0,23 mg/l
	Marine water	0,23 mg/l
	Intermittent use/release	0,88 mg/l
	Sewage treatment plant	3,6 mg/l
	Fresh water sediment	1,2 mg/kg dry weight (d.w.)
	Marine sediment	1,2 mg/kg dry weight (d.w.)
Acetone	Soil	0,55 mg/kg dry weight (d.w.)
	Fresh water	10,6 mg/l
	Marine water	1,06 mg/l
	Intermittent use/release	21 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	30,4 mg/kg dry weight (d.w.)
	Marine sediment	3,04 mg/kg dry weight (d.w.)
	Soil	29,5 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	9,33 mg/kg food
Distillates (petroleum), solvent refined heavy paraffinic		
Diethyl ether	Fresh water	2 mg/l
	Freshwater - intermittent	1,65 mg/l
	Marine water	0,2 mg/l
	Sewage treatment plant	4,2 mg/l
	Fresh water sediment	9,14 mg/kg dry weight (d.w.)
	Marine sediment	0,914 mg/kg dry weight (d.w.)
	Soil	0,66 mg/kg dry weight (d.w.)
	Fresh water	0,207 mg/l
	Marine water	0,207 mg/l
Cyclohexane	Intermittent use/release	0,207 mg/l
	Sewage treatment plant	3,24 mg/l
	Fresh water sediment	3,627 mg/kg dry weight (d.w.)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

	Marine sediment	3,627 mg/kg dry weight (d.w.)
	Soil	2,99 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.  
If sufficient ventilation is unavailable, use with local exhaust ventilation.  
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

#### Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:  
Safety glasses  
Equipment should conform to SIST EN 166

#### Hand protection

Material : Fluorinated rubber  
Break through time :  $\geq 30$  min  
Glove thickness : 0,6 mm

Material : butyl-rubber  
Break through time :  $\geq 30$  min  
Glove thickness : 0,6 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:  
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to SIST EN 137

Filter type : Self-contained breathing apparatus

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

### SECTION 9: Physical and chemical properties

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

Physical state	:	Aerosol containing a liquefied gas
Propellant	:	Propane, Butane, Isobutane
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> -161,5 °C (1,013 hPa)
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	15 %(V)
Lower explosion limit / Lower flammability limit	:	1,4 %(V)
Flash point	:	Not applicable
Auto-ignition temperature	:	175 °C
Decomposition temperature	:	No data available
pH	:	Solvent mixture; pH value determination not possible, no aqueous solution
Viscosity Viscosity, kinematic	:	Not applicable
Solubility(ies)	:	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Water solubility : partly miscible

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : 4.200 hPa (20 °C)

Density : 0,7035 - 0,7435 g/cm<sup>3</sup> (20 °C)

Relative vapour density : Not applicable

Particle characteristics  
Particle size : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.  
Vapours may form explosive mixture with air.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.  
Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

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### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### **Diethyl ether:**

Acute oral toxicity : LD50 (Rat): 1.200 mg/kg

Acute inhalation toxicity : LC50 (Rat): 97 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 20.000 mg/kg

##### **Pentane:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials

##### **Acetone:**

Acute oral toxicity : LD50 (Rat): 5.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

Acute dermal toxicity : LD50 (Rabbit): 7.426 mg/kg

### **Cyclohexane:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 19,07 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Acute oral toxicity : LD50 (Rat): 16.750 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): 259,354 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 3.350 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 3.350 mg/kg  
Remarks: Based on data from similar materials

### **n-Hexane:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 31,86 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

### **Components:**

#### **Diethyl ether:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

#### **Pentane:**

Species : Rabbit  
Result : No skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

#### **Acetone:**

Assessment : Repeated exposure may cause skin dryness or cracking.

#### **Cyclohexane:**

Species : Rabbit  
Result : Skin irritation

#### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

#### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from similar materials

Assessment : Repeated exposure may cause skin dryness or cracking.

#### **n-Hexane:**

Species : Rabbit  
Result : Skin irritation  
Remarks : Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### Diethyl ether:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

##### Pentane:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

##### Acetone:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

##### Cyclohexane:

Species : Rabbit  
Result : No eye irritation

##### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

##### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

##### n-Hexane:

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### Diethyl ether:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative

### **Pentane:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

### **Acetone:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

### **Cyclohexane:**

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : negative  
Remarks : Based on data from similar materials

### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : negative  
Remarks : Based on data from similar materials

### **n-Hexane:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : negative

### **Germ cell mutagenicity**

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

### Components:

#### **Diethyl ether:**

- Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative
- Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative
- Test Type: in vitro micronucleus test  
Result: negative
- Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

#### **Pentane:**

- Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: Directive 67/548/EEC, Annex V, B.10.  
Result: negative
- Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative
- Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Rat  
Application Route: inhalation (vapour)  
Method: Directive 67/548/EEC, Annex V, B.12.  
Result: negative

#### **Acetone:**

- Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative
- Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative
- Test Type: Chromosome aberration test in vitro  
Result: negative
- Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

### **Cyclohexane:**

- Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative
- Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative
- Test Type: In vitro mammalian cell gene mutation test  
Result: negative
- Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

- Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials
- Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: Based on data from similar materials
- Test Type: In vitro mammalian cell gene mutation test  
Result: negative  
Remarks: Based on data from similar materials
- Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative
- Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC)  
1272/2008, Annex VI, Part 3, Note P)

### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

- Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials
- Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: Based on data from similar materials
- Test Type: In vitro mammalian cell gene mutation test  
Result: negative  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **n-Hexane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)  
Species: Mouse  
Application Route: inhalation (vapour)  
Result: negative

Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Acetone:**

Species : Mouse  
Application Route : Skin contact  
Exposure time : 424 days  
Result : negative

#### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

Species : Mouse  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

Species : Mouse  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

### n-Hexane:

Species : Mouse  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Method : OECD Test Guideline 451  
Result : negative  
Remarks : Based on data from similar materials

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Diethyl ether:

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

#### Pentane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

#### Acetone:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **Cyclohexane:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

### **n-Hexane:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Application Route: inhalation (vapour)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Result: positive

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: inhalation (vapour)  
Result: negative

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

### STOT - single exposure

May cause drowsiness or dizziness.

#### Components:

##### **Diethyl ether:**

Assessment : May cause drowsiness or dizziness.

##### **Pentane:**

Assessment : May cause drowsiness or dizziness.

##### **Acetone:**

Assessment : May cause drowsiness or dizziness.

##### **Cyclohexane:**

Assessment : May cause drowsiness or dizziness.

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Assessment : May cause drowsiness or dizziness.

##### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Assessment : May cause drowsiness or dizziness.

##### **n-Hexane:**

Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **n-Hexane:**

Exposure routes : inhalation (vapour)  
Target Organs : Central nervous system  
Assessment : May cause damage to organs through prolonged or repeated exposure.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

### Repeated dose toxicity

#### Components:

##### **Diethyl ether:**

Species : Rat  
NOAEL : 500 mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks

Species : Rat  
NOAEL : > 1 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 13 Weeks  
Remarks : Based on data from similar materials

##### **Pentane:**

Species : Rat  
NOAEL : > 6700 ppm  
Application Route : inhalation (gas)  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 413

##### **Acetone:**

Species : Rat  
NOAEL : 900 mg/kg  
LOAEL : 1.700 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days

Species : Rat  
NOAEL : 45 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 8 Weeks

##### **Cyclohexane:**

Species : Rat  
NOAEL : 24,08 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 90 Days

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Species : Rat, male  
NOAEL : 10,504 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 90 Days  
Remarks : Based on data from similar materials

##### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Species : Rat, male  
NOAEL : 10,504 mg/l  
LOAEL : 31,652 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 13 Weeks  
Remarks : Based on data from similar materials

### **n-Hexane:**

Species : Mouse  
LOAEL : 1,76 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 13 Weeks

Species : Rat, male  
NOAEL : 568 mg/kg  
LOAEL : 3.973 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Product:**

May be fatal if swallowed and enters airways.

### **Components:**

#### **Pentane:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Acetone:**

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

#### **Cyclohexane:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

### n-Hexane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Experience with human exposure

#### Components:

##### n-Hexane:

Inhalation : Target Organs: Central nervous system  
Symptoms: Central nervous system depression

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Diethyl ether:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.560 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 165 mg/l  
Exposure time: 24 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC : 42 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

Method: OECD Test Guideline 211

### Pentane:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,26 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,7 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Scenedesmus capricornutum (fresh water algae)): 10,7 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Scenedesmus capricornutum (fresh water algae)): 2,04 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### Ecotoxicology Assessment

- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.  
Remarks: Based on national or regional regulation.

### Acetone:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.540 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 8.800 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7.000 mg/l  
Exposure time: 96 h
- Toxicity to microorganisms : EC50 : 61.150 mg/l  
Exposure time: 30 min  
Method: ISO 8192
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 79 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Cyclohexane:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,53 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,9 mg/l  
Exposure time: 48 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,94 mg/l  
Exposure time: 72 h

EC50 (Pseudokirchneriella subcapitata (green algae)): 9,32 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

### Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 100 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (Selenastrum capricornutum (green algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOELR (Selenastrum capricornutum (green algae)): 0,1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: > 0,1 - 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 12 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction

Toxicity to algae/aquatic plants : EL50 (Selenastrum capricornutum (green algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOELR (Selenastrum capricornutum (green algae)): 0,1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

### **n-Hexane:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3,88 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 55 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEL (Pseudokirchneriella subcapitata (green algae)): 30 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

## 12.2 Persistence and degradability

### **Components:**

#### **Diethyl ether:**

Biodegradability : Result: Not readily biodegradable.

#### **Pentane:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 87 %  
Exposure time: 28 d

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

---

### Acetone:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 28 d

### Cyclohexane:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 77 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 81 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### n-Hexane:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

## 12.3 Bioaccumulative potential

### Components:

#### Diethyl ether:

Partition coefficient: n-octanol/water : log Pow: 0,89

#### Pentane:

Partition coefficient: n-octanol/water : log Pow: 3,45

#### Acetone:

Partition coefficient: n-octanol/water : log Pow: -0,27 - -0,23

#### Cyclohexane:

Partition coefficient: n-octanol/water : log Pow: 3,44



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

octanol/water

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Partition coefficient: n-  
octanol/water : log Pow: 3,6

### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Partition coefficient: n-  
octanol/water : log Pow: > 3 - < 4  
Remarks: Based on data from similar materials

### n-Hexane:

Partition coefficient: n-  
octanol/water : log Pow: 4

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste han-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

---

ding site for recycling or disposal.  
Empty containers retain residue and can be dangerous.  
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.  
Please ensure aerosol cans are sprayed completely empty (including propellant)

Waste Code : The following Waste Codes are only suggestions:

used product  
16 05 04, gases in pressure containers (including halons)  
containing hazardous substances

unused product  
16 05 04, gases in pressure containers (including halons)  
containing hazardous substances

uncleaned packagings  
15 01 10, packaging containing residues of or contaminated  
by hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN	:	UN 1950
ADR	:	UN 1950
RID	:	UN 1950
IMDG	:	UN 1950
IATA	:	UN 1950

#### 14.2 UN proper shipping name

ADN	:	AEROSOLS
ADR	:	AEROSOLS
RID	:	AEROSOLS
IMDG	:	AEROSOLS
IATA	:	Aerosols, flammable

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 2	2.1
ADR	: 2	2.1
RID	: 2	2.1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

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**IMDG** : 2.1

**IATA** : 2.1

### 14.4 Packing group

#### ADN

Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

#### ADR

Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

#### RID

Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

#### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based on the properties of the unpackaged material as it is described within this Safety Data

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.  
If you intend to use this product as tattoo ink, please contact your vendor.

Cyclohexane (Number on list 57)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Acetone (ANNEX II)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
E2	ENVIRONMENTAL HAZARDS	200 t	500 t
18	Liquefied flammable gases (including LPG) and natural gas	50 t	200 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)	2.500 t	25.000 t

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 92 %, 589,37 g/l  
Remarks: VOC content excluding water

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Chemicals Act

Environment Protection Act

Decree on waste

Decree on the management of packaging and packaging waste

Rules on the protection of workers from the risks related to exposure to chemical substances at work (Official Gazette of RS, no. 72/21)

Rules on personal protective equipment used by workers at work

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version 11.0      Revision Date: 17.04.2024      SDS Number: 10675674-00013      Date of last issue: 18.10.2023  
Date of first issue: 22.09.2010

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### Full text of H-Statements

H224 : Extremely flammable liquid and vapour.  
H225 : Highly flammable liquid and vapour.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.  
H361f : Suspected of damaging fertility.  
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.  
EUH019 : May form explosive peroxides.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Repr. : Reproductive toxicity  
Skin Irrit. : Skin irritation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
2006/15/EC : Europe. Indicative occupational exposure limit values  
SI BAT : Slovenia. BAT-values  
SI OEL : Slovenia. Chemical agents at work - Appendix 1: Occupational exposure limits  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
2006/15/EC / TWA : Limit Value - eight hours  
SI OEL / MV : Time Weighted Average  
SI OEL / KTV : Short Term Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SPREJ ZA LAŽJI VŽIG MOTORJA

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
11.0	17.04.2024	10675674-00013	Date of first issue: 22.09.2010

cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Aerosol 1	H222, H229
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

### Classification procedure:

Based on product data or assessment
Calculation method
Based on product data or assessment
Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SI / EN