

## SAFETY DATA SHEET

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### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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#### 1.1. PRODUCT IDENTIFIER

Product name

**MITOFLEKS 500 mL**



chemius.net/pOh2f

#### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses

Marker.

Uses advised against

No information.

#### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier

MITOL, tovarna lepil, d.o.o., Sežana  
Address: Partizanska c. 78 Sežana, Slovenia  
Phone: +386 5 73 12 300  
Fax: +386 5 73 12 390  
E-mail: lilijana.kocjan@mitol.si  
Point of contact for safety info: Lilijana Kocjan Žorž

#### 1.4. EMERGENCY TELEPHONE NUMBER

112

+386 5 73 12 300 (8:00-16:00)

### SECTION 2. HAZARDS IDENTIFICATION

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#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 Extremely flammable aerosol.

Aerosol 1; H229 Pressurised container: May burst if heated.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

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### 2.2 LABEL ELEMENTS

#### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Danger**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

P102 Keep out of reach of children.

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.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with national regulation.

#### 2.2.2. Contains:

acetone (CAS: 67-64-1, EC: 200-662-2, Index: 606-001-00-8)

ethyl acetate (CAS: 141-78-6, EC: 205-500-4, Index: 607-022-00-5)

#### 2.2.3. Special provisions

Special hazards are not known or expected.

### 2.3. OTHER HAZARDS

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1. SUBSTANCES

For mixtures see 3.2.

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### 3.2. MIXTURES

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
isobutane [C, U]	75-28-5 200-857-2 601-004-00-0	25-50	Flam. Gas 1; H220 Press. Gas; H280		01-2119485395-27
acetone	67-64-1 200-662-2 606-001-00-8	25-50	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		01-2119471330-49
propane [U]	74-98-6 200-827-9 601-003-00-5	10-25	Flam. Gas 1; H220 Press. Gas; H280		01-2119486944-21
ethyl acetate	141-78-6 205-500-4 607-022-00-5	10-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		-

#### Notes for substances:

<b>C</b>	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.  In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
<b>U</b>	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

## SECTION 4. FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If symptoms develop and persist, seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Seek medical help immediately. In case of unconsciousness bring patient into stable side position and seek medical attention.

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

#### Following ingestion

Not likely. Accidental ingestion: Rinse mouth thoroughly with water. Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label.

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### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

#### Inhalation

Vapours may cause drowsiness and dizziness.  
Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.  
Coughing, sneezing, nasal discharge, labored breathing.

#### Skin contact

Contact with skin may cause irritation (redness, itching).  
Repeated exposure may cause dry skin or cracked skin.

#### Eye contact

Causes severe eye irritation.  
Redness, tearing, pain.

#### Ingestion

Not likely.  
Accidental ingestion:  
May cause abdominal discomfort.  
May cause nausea/vomiting and diarrhea.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

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### 5.1. EXTINGUISHING MEDIA

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

Full water jet.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

### 5.3. ADVICE FOR FIREFIGHTERS

#### Protective actions

In case of fire do not breathe fumes/gases. Vapours can form explosive mixtures with air. Prolonged heating can cause an explosion. In case of fire aerosols can explode and be propelled to considerable distances in different directions. Cool containers at risk with water spray. If possible remove containers from endangered area. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

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### Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Evacuate the danger zone. Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Avoid contact with skin, eyes and clothing. Do not breathe vapour or mist.

#### 6.1.2. For emergency responders

Use personal protective equipment.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach water/drains/sewage systems or permeable soil. The product is an aerosol, which is why leakage of large amounts of product is not expected. If accidental large entry into water or ground occurs, inform responsible authorities.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

#### 6.3.1. For containment

Stem the spill if this does not pose risks.

#### 6.3.2. For cleaning up

Use spark-proof tools. Collect the spray cans and hand them over to an authorized waste disposal contractor. Release of liquid because of damaged aerosol can (release of large quantities): In case of bigger spill, dam the spillage, pump the liquid into appropriate labelled containers, absorb a residue with absorbent material and dispose of according to local regulations. Do not absorb spillage with sawdust or other combustible material. Dispose in accordance with applicable regulations (see Section 13).

#### 6.3.3. Other information

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### 6.4. REFERENCE TO OTHER SECTIONS

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

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### 7.1. PRECAUTIONS FOR SAFE HANDLING

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation. Protect from open fire and other sources of ignition or heat. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Vapours and air form explosive mixtures. Take precautionary measures against static discharges. Use spark-proof tools.

##### **Measures to prevent aerosol and dust generation**

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### **Measures to protect the environment**

Avoid release to the environment.

#### 7.1.2. Advice on general occupational hygiene

Refer to instructions on label and regulations for safety and health at work. Wear suitable protective equipment; see Section 8. Consider measures required in Section 8 of this safety data sheet. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/mist.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### 7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Follow safe storage practices for packed compressed gas as described by the Compressed Gas Association or the relevant agency in the country where the product is used. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep in cool and well ventilated area. Keep in well closed containers. Keep away from sources of ignition - no smoking. Protect against heat and direct sunlight. Keep away from oxidising substances.

#### 7.2.2. Packaging materials

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### 7.2.3. Requirements for storage rooms and vessels

Do not store in unlabelled containers.

### 7.2.4. Storage class

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### 7.2.5. Further information on storage conditions

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## 7.3. SPECIFIC END USE(S)

### **Recommendations**

See identified uses in Section 1.2.

### **Industrial sector specific solutions**

No specific data available.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. CONTROL PARAMETERS

#### 8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>		
Ethyl acetate (141-78-6)	200	734	400	1468		
Acetone (67-64-1)	500	1210	1500	3620		

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

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### 8.1.3. DNEL/DMEL values

#### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
acetone (67-64-1)	Worker	inhalation	long term (systemic effects)	1210 mg/m <sup>3</sup>	
acetone (67-64-1)	Worker	inhalation	long term (local effects)	2420 mg/m <sup>3</sup>	
acetone (67-64-1)	Worker	dermal	long term (systemic effects)	186 mg/kg bw/day	
acetone (67-64-1)	Consumer	inhalation	long term (systemic effects)	200 mg/m <sup>3</sup>	
acetone (67-64-1)	Consumer	dermal	long term (systemic effects)	62 mg/kg bw/day	
acetone (67-64-1)	Consumer	oral	long term (systemic effects)	62 mg/kg bw/day	
ethyl acetate (141-78-6)	Worker	inhalation	long term (systemic effects)	734 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Worker	inhalation	short term (systemic effects)	1468 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Worker	inhalation	long term (local effects)	734 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Worker	inhalation	short term (local effects)	1468 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Worker	dermal	long term (systemic effects)	63 mg/kg bw/day	
ethyl acetate (141-78-6)	Consumer	inhalation	long term (systemic effects)	367 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Consumer	inhalation	short term (systemic effects)	734 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Consumer	inhalation	long term (local effects)	367 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Consumer	inhalation	short term (local effects)	734 mg/m <sup>3</sup>	
ethyl acetate (141-78-6)	Consumer	dermal	long term (systemic effects)	37 mg/kg bw/day	
ethyl acetate (141-78-6)	Consumer	oral	long term (systemic effects)	4,5 mg/kg bw/day	

### 8.1.4. PNEC values

#### For components

Name	Exposure route	Value	Remark
acetone (67-64-1)	fresh water	10,6 mg/L	
acetone (67-64-1)	marine water	1,06 mg/L	
acetone (67-64-1)	water treatment plant	100 mg/L	
acetone (67-64-1)	fresh water sediment	30,4 mg/kg	dry weight
acetone (67-64-1)	marine water sediment	3,04 mg/kg	dry weight
acetone (67-64-1)	soil	29,5 mg/kg	dry weight
acetone (67-64-1)	water, intermittent release	21 mg/L	fresh water
ethyl acetate (141-78-6)	fresh water	0,24 mg/L	
ethyl acetate (141-78-6)	water, intermittent release	1,65 mg/L	fresh water
ethyl acetate (141-78-6)	marine water	0,024 mg/L	
ethyl acetate (141-78-6)	water treatment plant	650 mg/L	
ethyl acetate (141-78-6)	fresh water sediment	1,15 mg/kg	dry weight
ethyl acetate (141-78-6)	marine water sediment	0,115 mg/kg	dry weight
ethyl acetate (141-78-6)	soil	0,148 mg/kg	dry weight
ethyl acetate (141-78-6)	food chain	0,2 mg/kg feed	oral

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### 8.2. EXPOSURE CONTROLS

#### 8.2.1. Appropriate engineering control

##### **Substance/mixture related measures to prevent exposure during identified uses**

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols. Keep away from foodstuffs, beverages and feed. If technical measures to reduce workers' exposure are not sufficient, and the limit values of hazardous substances in the air are exceeded, it is necessary to use personal protective equipment.

##### **Organisational measures to prevent exposure**

Remove all contaminated clothes immediately and wash them before reuse.

##### **Technical measures to prevent exposure**

Provide good ventilation and local exhaust in areas with increased concentration.

#### 8.2.2. Personal protective equipment

##### **Eye and face protection**

Safety glasses with side protection (EN 166).

##### **Hand protection**

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

##### **Skin protection**

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). Choose body protection according to the activity and possible exposure.

##### **Respiratory protection**

In case of insufficient ventilation wear suitable respiratory protection. If the concentration limit values are exceeded, it is necessary to wear appropriate respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

##### **Thermal hazards**

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#### 8.2.3. Environmental exposure controls

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

-	<b>Physical state:</b>	liquid; aerosol
-	<b>Colour:</b>	green
-	<b>Odour:</b>	characteristic



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### Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	No information.
-	<b>Flash point</b>	No information.
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	No information.
-	<b>Explosion limits (vol%)</b>	1,5 – 10,9 vol % (propellant) 2,1 – 13 vol % (acetone)
-	<b>Vapour pressure</b>	240 hPa at 20 °C
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	<b>Density:</b> 0,963 kg/L at 20 °C (data refers to the liquid portion of the product)
-	<b>Solubility</b>	No information.
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	No information.
-	<b>Decomposition temperature</b>	No information.
-	<b>Viscosity</b>	No information.
-	<b>Explosive properties</b>	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
-	<b>Oxidising properties</b>	No information.

### 9.2. OTHER INFORMATION

-	<b>Weight organic solvents</b>	622 g/l (VOC) 89 % (VOC)
-	<b>Remarks:</b>	

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. REACTIVITY

Stable under recommended transport or storage conditions.

### 10.2. CHEMICAL STABILITY

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

The product is stable under recommended storage and handling conditions. Vapours and air can form flammable or explosive mixtures.

### 10.4. CONDITIONS TO AVOID

Avoid all possible sources of ignition (spark or flame). Do not expose to heat and direct sunlight. Do not store above 50°C.

### 10.5. INCOMPATIBLE MATERIALS

Oxidants.  
Peroxide.

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

##### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
acetone (67-64-1)	inhalation	LC <sub>50</sub>	rat	4 h	ca. 76 mg/l		
acetone (67-64-1)	dermal	LD <sub>50</sub>	rabbit		> 15800 mg/kg		
acetone (67-64-1)	oral	LD <sub>50</sub>	rat		5800 mg/kg	OECD 401	
ethyl acetate (141-78-6)	oral	LD <sub>50</sub>	rabbit		5620 mg/kg		
ethyl acetate (141-78-6)	inhalation	LC <sub>50</sub>	rat	4 h	1600 mg/l		

**Additional information:** The product is not classified for acute toxicity.

##### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
acetone (67-64-1)	guinea pig		Non-irritant.		

**Additional information:** The product is not classified as irritating to the skin.

##### (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
acetone (67-64-1)	rabbit		Irritating to eyes.	OECD 405	
acetone (67-64-1)	rabbit		Irritates the eyes. The occurrence of corneal injuries is possible.	OECD 405	

**Additional information:** Causes serious eye irritation.

##### (d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
acetone (67-64-1)	-	guinea pig		Non sensitising.	OECD 406	

**Additional information:** The product is not classified as sensitising.

##### (e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
<b>For product</b>				The chemical is not classified as mutagenic.		
acetone (67-64-1)		Bacteria		The tests did not show mutagenic effects		
acetone (67-64-1)		Cell: Mammalian-Animal		The tests did not show mutagenic effects		
acetone (67-64-1)	in-vitro mutagenicity			Negative.	OECD 473	Chromosome aberration assay
acetone (67-64-1)	in-vitro mutagenicity	Cell: Mammalian-Animal		Negative.	OECD 476	
acetone (67-64-1)	in-vitro mutagenicity	Bacteria		Negative.	OECD 471	
acetone (67-64-1)	in-vivo mutagenicity	mouse		Negative.	The micronucleus test	

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### (f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
<b>For product</b>							The chemical is not classified as carcinogenic.	
acetone (67-64-1)						Animal testing did not show any carcinogenic effects.		
acetone (67-64-1)	dermal		mouse			negative		

### (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
<b>For product</b>							The chemical is not classified as toxic for reproduction.	
acetone (67-64-1)	Reproductive toxicity					Animal testing did not show any effects on fertility.		
acetone (67-64-1)	Teratogenicity		rat			Negative.	OECD 414	

### Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

### (h) STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
acetone (67-64-1)	-	-					May cause drowsiness or dizziness.		
<b>Additional information:</b> May cause drowsiness or dizziness.									

### (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
acetone (67-64-1)	dermal	-					Repeated exposure may cause dry and cracked skin.		
acetone (67-64-1)	Repeated dose toxicity	NOAEL	rat	90 days	oral	900 mg/kg bw/day			
acetone (67-64-1)	Repeated dose toxicity	NOAEC	rat			22500 mg/m <sup>3</sup>			inhalation
acetone (67-64-1)	inhalation	-	human				Headache, dizziness, fatigue, nausea and vomiting.		excessive exposure to vapors
acetone (67-64-1)	dermal	-	human				Repeated or prolonged exposure may cause dermatitis.		
acetone (67-64-1)	inhalation	-	human		Nasal inner lining		Symptoms: inflammation of the mucous membranes.		
<b>Additional information:</b> Repeated exposure may cause skin dryness or cracking. STOT RE (repeated exposure): Not classified.									

### (j) Aspiration hazard

<b>Additional information:</b> Aspiration hazard: Not classified.									
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### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1. TOXICITY

##### 12.1.1. Acute (short-term) toxicity

###### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
acetone (67-64-1)	LC <sub>50</sub>	5540 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	LC <sub>50</sub>	11000 mg/L	96 h	fish	<i>Alburnus alburnus</i>		
	LC <sub>50</sub>	8800 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	NOEC	430 mg/L	96 h	fish			
	EC <sub>12</sub>	1000 mg/L	30 min	bacteria	Activated sludge	OECD 209	

##### 12.1.2. Chronic (long-term) toxicity

###### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
acetone (67-64-1)	NOEC	2212 mg/l	28 days	crustacea	<i>Daphnia pulex</i>		reproduction

#### 12.2. PERSISTENCE AND DEGRADABILITY

##### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

###### For components

Substance (CAS Nr.)	Environment	Type / Method	Half Time	Evaluation	Method	Remark
acetone (67-64-1)	water			Degraded by hydrolysis.		

##### 12.2.2. Biodegradation

###### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
acetone (67-64-1)	biodegradability	91 %	28 days	readily biodegradable	OECD 301 B	
acetone (67-64-1)	BOD	1900 mg/g	5 days			
acetone (67-64-1)	COD	2100 mg/g				

#### 12.3. BIOACCUMULATIVE POTENTIAL

##### 12.3.1. Partition coefficient

###### For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
acetone (67-64-1)	log Kow	-0,24				

##### 12.3.2. Bioconcentration factor (BCF)

###### For components

Substance (CAS Nr.)	species	Organism	Value	Duration	Evaluation	Method	Remark
acetone (67-64-1)	BCF		< 10				

#### 12.4. MOBILITY IN SOIL

##### 12.4.1. Known or predicted distribution to environmental compartments

No information.

##### 12.4.2. Surface tension

No information.

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### 12.4.3. Adsorption/Desorption

No information.

### **12.5. RESULTS OF PBT AND VPVB ASSESSMENT**

No evaluation.

### **12.6. OTHER ADVERSE EFFECTS**

No information.

### **12.7. ADDITIONAL INFORMATION**

#### **For product**

Product is not classified as dangerous for environment.  
Water hazard class 1 (self-assessment): slightly hazardous for water.  
Avoid release to the environment.

#### **For components**

##### **Substance: acetone**

Does not bioaccumulate.  
The substance is highly volatile.  
This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).  
Avoid release to the environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

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### **13.1. WASTE TREATMENT METHODS**

#### 13.1.1. Product / Packaging disposal

##### **Waste chemical**

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Avoid release to the environment. Product and container must be disposed of safely.

##### **Waste codes / waste designations according to LoW**

16 05 04\* - gases in pressure containers (including halons) containing dangerous substances

##### **Packaging**

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers should not be perforated, cut or welded. Pressurized container. Do not pierce or burn, even after use.

##### **Waste codes / waste designations according to LoW**

15 01 11\* - metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

#### 13.1.2. Waste treatment-relevant information

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#### 13.1.3. Sewage disposal-relevant information

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#### 13.1.4. Other disposal recommendations

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## SECTION 14. TRANSPORT INFORMATION

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### **14.1. UN NUMBER**

UN 1950

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### 14.2. UN PROPER SHIPPING NAME

AEROSOLS

### 14.3. TRANSPORT HAZARD CLASS(ES)

2

### 14.4. PACKING GROUP

Not applicable.

### 14.5. ENVIRONMENTAL HAZARDS

NO.

### 14.6. SPECIAL PRECAUTIONS FOR USER

#### Limited quantities

1 L

#### Tunnel restriction code

(D)

#### IMDG EmS

F-D, S-U



### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

Goods may not be carried in bulk in bulk containers, containers or vehicles.

## SECTION 15. REGULATORY INFORMATION

### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

#### 15.1.2. Special instructions

Water hazard class 1 (self-assessment): slightly hazardous for water.

### 15.2. CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

#### Indication of changes

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#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number

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CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations

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vPvB - Very Persistent and Very Bioaccumulative

### Key literature references and sources for data

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### List of relevant H phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.