

**SECTION 1: Identification of the substance / mixture and company identification****1.1 Product identifier:** Dr. Mayer Energy**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Identified use: Alcoholic wipes for cleaning and disinfection of medical equipments surfaces.. For professional use only.

The use discouraged: not specified

**1.3 Details of the supplier of the safety data sheet****Manufacturer:** MEDISEPT Sp. z o.o.  
Konopnica 159C  
21-030 Motycz, Poland  
tel. 048 81 503 23 77  
[www.medisept.pl](http://www.medisept.pl)**Distributor:** DENTSTORE SRL  
Tepes Voda 89, Sector 2, Bucuresti, Romania  
Tel. 021 308 57 51  
[www.dentstore.ro](http://www.dentstore.ro)E-mail of the person responsible for the safety data sheet: : [g.gromadzki@medisept.pl](mailto:g.gromadzki@medisept.pl)**1.4 Emergency telephone number:** +48 81 535 22 22 at time: 8.00 a.m. – 4.00 p.m.  
112 (general emergency number)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****In accordance with Regulation 1272/2008:**Flam. Liq. 3; H226  
Eye Irrit.2; H319  
STOT SE 3; H336  
Aquatic Chronic 3; H412**The threat to human health**

Causes serious eye irritation. May cause drowsiness or dizziness

**Environmental hazards**

Harmful to aquatic life with long-lasting effects.

**Physical/chemical hazards**

No.

**2.2 Label elements:****Pictograms:****Signal word:** Warning**Hazard statements****H226** - Flammable liquid and vapour**H319** – Causes serious eye irritation.**H336** - May cause drowsiness or dizziness**H412** - Harmful to aquatic life with long-lasting effects.

**Phrases indicating conditions of safe use:**

**P210** - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

**P337 + P313** –In case of persistent eye irritation: Get medical advice/attention.

Contains:

Propan-2-ol (CAS: 67-63-0)

In accordance with Regulation 648/2004

<5% amphoteric surfactant

<5% cationic surfactant

The surfactants comply with the biodegradability in accordance with Reg. 648/2004

List of components available on website: [www.medisept.pl](http://www.medisept.pl)

2.3 Other hazards:

No information as to the compliance with PBT or vPvB criteria, as per Annex XIII to the REACH regulation.

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

**3.1 Substance:** Not applicable

**3.2 Mixture:** Hazardous components

Product identifier	Content %	Classification CLP	
		Hazard class and category codes	Codes hazard statements
Propan-2-ol CAS: 67-63-0 EC: 200-661-7 Index No.: 603-117-00-0 No REACH: 01-2119457558-25-XXXX	<10	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
Ethanol CAS: 64-17-5 EC: 200-578-6 Index no: 603-002-00-5 REACH no: 01-2119457610-43-XXXX	<20	Flam. Liq. 2 Eye Irrit. 2	H225 H319
Amines, N-C12–C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid CAS: 139734-65-9 EC: 941-419-7 Index No: - REACH No: 01-2120050368-56-XXXX	<0,7	Acute Tox. 4 Skin Corr. 1C Eye Dam. 1 STOT RE 1 Aquatic Acute 1 Aquatic Chronic 1	H302 H314 H318 H372 H400 H410
Dimethyldidecylammonium chloride CAS: 7173-51-5 EC: 230-525-2 Index No: - REACH No: 01-2119945987-15-0003	<0,25	Acute Tox. 3 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	H301 H314 H318 H400 H411

Full text of H phrases In Section 16

**SECTION 4: First Aid Measures****4.1 Description of first aid measures****Skin contact:**

Remove contaminated clothing, wash affected skin with soap and water, rinse thoroughly with water. In the event of an irritation, erythema, contact your doctor.

**Eye contact:**

Rinse eyes for several minutes (approx. 15) with plenty of water, holding the eyelids apart. Avoid strong stream, due to the risk of cornea damage, consult a doctor.

**Inhalation:**

In case of dizziness or nausea, remove casualty to fresh air, in the absence of rapid improvement, seek medical advice.

**Ingestion:**

Do not induce vomiting, rinse your mouth. Immediately contact your doctor.

**4.2 Most important symptoms and effects, both acute and delayed :**

**Respiratory system:** In case of dizziness or nausea, remove casualty to fresh air, in the absence of rapid improvement, seek medical advice.

**Digestive tract:** Ingestion causes irritation of the mucous membranes of the gastrointestinal tract, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, malaise, headaches and dizziness - symptoms of food poisoning.

**Eye contact:** Causes serious eye irritation.

**Skin contact:** Cause skin irritation, redness.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Decision on the rescue procedure is taken by a doctor following thorough examination of victim's condition

**SECTION 5: Fire fighting measures****5.1 Extinguishing media:**

**Suitable extinguishing media:** : Alcohol-resistant foam or dry chemicals (A, B, C), carbon dioxide (fire-extinguisher), sand or soil, water spray. Use fire extinguishing methods suitable to the environment.

**Unsuitable extinguishing media:** A strong stream of water.

**5.2 Special hazards arising from the substance or mixture:**

During a fire, under the action of heat release toxic decomposition products containing min. carbon oxides.

**5.3 Advice for fire-fighters:**

Cool containers with spray water. If possible remove from the danger zone. As in any fire, wear self-contained breathing apparatus and full protective gear. Prevent fire-fighting water from entering surface water, ground water and sanitation.

**SECTION 6: Accidental release measures****6. Personal precautions, protective equipment and emergency procedures:**

*For non-emergency personnel:* Inform the appropriate service. Remove from the hazardous area people not involved in liquidation of failure.

*For emergency responders:* Ensure adequate ventilation, use personal protective equipment. Do not breathe vapors.

**6.2 Environmental precautions:**

Prevent from spreading or entering into drains and reservoirs, to inform local authorities if you fail to provide protection.

**6.3 Methods and material for containment and cleaning up :**

Absorb with liquid-binding material (sand, sawdust, diatomaceous earth, universal absorbent). Contaminated material placed in properly labeled containers. The contaminated material placed in properly labeled containers for disposal in accordance with applicable regulations.

**6.4 Reference to other sections:**

Waste product handling – see section 13 of the Safety Data Sheet.

Individual protection measures – see section 8 of the Safety Data Sheet.

**SECTION 7: Handling and Storage**

**7.1 Precautions for safe handling:**

Use in well-ventilated area. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid spilling or splashing. Avoid breathing vapors. Avoid sources of ignition, heat, hot surfaces and open flames. Work in accordance with safety and hygiene: Do not eat, drink and smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry, well-ventilated properly labeled original container tightly closed. Avoid direct sunlight and heat sources, hot surfaces and open flames.

**7.3 Specific end use(s):**

Alcoholic wipes for cleaning and disinfection of medical equipment surfaces.. For professional use only.

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

**8.1 Control parameters:**

Exposure standards for occupational hazards in accordance with the Regulation of the Minister of Labour and Social Policy of 12 June 2018 on maximum permissible concentration and intensity of harmful factors in the work environment (polish Journal of Laws, item. 1286).

Exposure limits (ACGIH):

Name / type of substance	TWA	STEL
	ppm	
Propan-2-ol	900	1200
Ethanol	1900	-

**DNEL Values for Propan-2-ol**

- Worker, skin, long exposure systemic effect: 888 mg/kg/d
- Worker, inhalation, long exposure, systemic effect: 500mg/m<sup>3</sup>
- User, skin, long exposure, systemic effect: 319 mg/kg/d
- User, inhalation, long exposure, local effect: 89mg/m<sup>3</sup>
- User, oral, long exposure, systemic effect: 26 mg/kg/d

**PNEC Values for Propan-2-ol**

- Fresh water: 140,9mg/l
- Seawater: 140,9mg/l
- Periodic release: 190mg/l
- Fresh water sludge: 552mg/kg
- Seawater sludge: 552mg/kg
- Sewage plant: 2251 mg/l
- Soil: 28mg/kg

**DNEL Values for ethanol**

- Worker, skin, long exposure systemic effect: 343 mg/kg/d
- Worker, inhalation, long exposure, systemic effect: 950mg/m<sup>3</sup>
- User, skin, long exposure, systemic effect: 206 mg/kg/d
- User, inhalation, long exposure, local effect: 114mg/m<sup>3</sup>
- User, oral, long exposure, systemic effect: 87 mg/kg/d

**PNEC Values for ethanol**

- Fresh water: 0,96mg/l
- Seawater: 0,79mg/l
- Periodic release: 190mg/l
- Fresh water sludge: 580mg/kg

**8.2 Exposure controls:**

**Technical solutions:** recommended well-ventilated areas.

**Individual protection measures, such as personal protective equipment (if working with concentrated product):**



**Eye and face protection:**

Wear safety glasses or full face mask (according to EN 166).

**Skin protection:**

**Hand protection:**

Wear protective gloves resistant to chemicals made of nitrile rubber, natural rubber or PVC, in accordance with EN-PN 374: 2005.

**Gloves material:**

Choice of suitable gloves do not depend only on material but brand and quality. Material resistance can be defined after testing. Exact destruction time must be declared by manufacturer.

**Other:**

Wear appropriate protective work wear (according to EN 344) - wash regularly.

**Respiratory protection:**

Not necessary. Do not breath vaporous

**Thermal hazards:**

Not applicable.

**Environmental exposure controls:**

Do not allow to spread in the environment and enter drains and watercourses.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties (for liquid):**

Appearance	Wipes soaked with alcoholic liquid
Colour	White/transparent
Odour	Alcoholic, perfumed (citrus)
Odour threshold	Not specified
pH	7,9-8,5 (for liquid)
Melting point/range	>-5°C
Boiling point/range	approx 90 °C
Flash point	25 °C
Ignition	Not specified
Evaporation rate	Not specified
Flammability (solid, gas)	Not specified
Lower explosive limit	Not specified

Higher explosive limit	Not specified
Vapour pressure at 20 ° C	Not specified
Relative vapor density	Not specified
Density at 20 °C	0,880 – 0,890g/cm <sup>3</sup>
Solubility in solvents	Completely soluble in water
Coefficient of n-octanol / water	Not specified
Auto-ignition temperature	>420°C
Temperature of decomposition	Not specified
Refractive index (Na)	1,371-1,372

**9.2 Other information:** No additional test results.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity :**

Unknown

**10.2 Chemical stability:**

The product is stable under normal conditions of use, storage and transport.

**10.3 Possibility of hazardous reactions:**

No

**10.4 Conditions to avoid :**

Avoid high temperature, direct sunlight, hot surfaces and open fire.

**10.5 Incompatible materials :**

Strong alkali and acids, ammonia, strong oxidizers or reductors

**10.6 Hazardous decomposition products :**

At high temperatures, they release toxic products of decomposition - carbon oxides.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects:**

a) Acute toxicity: not recognized

**Propan-2-ol**

LD50 (oral, rat): 5280mg/kg

LD50 (rat,skin): 12800mg/kg

LC50 (rat, respiratory): 72,6mg/l, 4h

**Ethanol**

LD50 (oral, rat): 6200mg/kg

LD50 (rabbit,skin): 20000mg/kg

LC50 (rat, respiratory): 124,7mg/l, 4h

**Dimethyldidecylammonium chloride**

LD50 (oral, rat): 238mg/kg

LD50 (rabbit,skin): 3342mg/kg

Irritation: skin, rabbit, exposition 3 min, OECD404

Allergy: no, Buehler method

b) irritation effect: not recognized

c) corrosive effect: causes eye irritation

d) allergic effect: not recognized

e) repeated dose toxicity: not recognized

f) carcinogenicity: not recognized

g) mutagenicity: not recognized

h) reproductive toxicity: not recognized

**Information on likely routes of exposure:**

The respiratory system. Inhalation of concentrated vapours may cause irritation of the mucous membranes of the nose, throat and downstream sections of the respiratory system, cough, shortness of breath, trouble breathing. May cause drowsiness or dizziness

The digestive tract: May cause irritation of the mucous membranes of the gastrointestinal tract, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, malaise, headache and dizziness – symptoms of food poisoning.

Eye contact: Causes eye irritation.

Contact with skin: Not known

**Delayed, immediate and chronic effects from short-and long-term exposure:**

No data.

**Interaction effect:**

No data.

**SECTION 12: Ecological information**

Detailed studies of the environmental effects were not carried out. Harmful to aquatic life with long-lasting effects. Do not allow product to reach ground water, drains and watercourses.

**12.1 Toxicity:****Ethanol**

Toxicity to fish (Alburnus alburnus): LC50: 1100mg/l, 96h

Toxicity for crustacean (Daphnia magna): EC50 9268mg/l, 48h

Toxicity to algae (Microcystis aeruginosa): EC50 1450mg/l, 192h

**Propan-2-ol**

Toxicity to fish (Pimephales promelas): LC50: 9640mg/l, 96h

Toxicity for crustacean (Daphnia magna): EC50 1299mg/l, 48h

Toxicity to algae (Scenedesmus subspicatus): EC50 1000mg/l, 72h

**Dimethyldidecylammonium chloride**

Toxicity to fish (Pimephales promelas): LC50: 0,19mg/l, 96h

Toxicity to crustacean (Daphnia magna): EC50 0,062mg/l, 48h

Toxicity to algae (Pseudokirchneriella subcapitata): ECr50 0,026mg/l, 96h

**Amines, N-C12–C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid**

Toxicity to fish (Pimephales promelas): LC50: 0,19mg/l, 96h

Toxicity to crustacean (Daphnia magna): EC50 0,062mg/l, 48h

Toxicity to algae (Scenedesmus subspicatus): ECr50 0,026mg/l, 96h

Toxicity to soil organisms (Eisenida fetida): NOEC >=1000mg/kg, 14d

**12.2 Persistence and degradability:**

Surfactants are included in the product are consistent with the regulations concerning biodegradation.

**Propan-2-ol**

Biological need for: 1,19gO<sub>2</sub>/g

Chemical need for oxygen: 2,23g O<sub>2</sub>/g

Ethanol

Biodegradability: 89% in 14d (100mg/l)

**Dimethyldidecylammonium chloride**

Test Die-Away: 93,3 % 28 d

Test OECD: 91 %: 24 - 70d

**Amines, N-C12–C14(even numbered)-alkyltrimethylenedi-, reaction products with chloroacetic acid**

Aerobic biological biodegradability: 94%, 28d

Readily biodegradable (aerobic cond.)

Anerobic biological biodegradability: 0%, 60d

Not biodegradable (anerobic)

**12.3 Bioaccumulative potential:****Propan-2-ol**

BCF: 3

Log Po/w: 0,05

Bioaccumulative potential: low

Ethanol

BCF: 3

Log Po/w: -0,31

Bioaccumulative potential: low

**12.4 Mobility in soil:**

Mobile in the soil, dissolved in water and spread in an aquatic environment.

**Propan-2-ol**

Ko/c: 1,5: high mobility

Ethanol:

Ko/c: 1,0: high mobility

**12.5 Results of PBT and vPvB assessment:**

No data.

**12.6 Other adverse Effects:**


No data.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods:**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorized for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed with municipal waste. Empty containers may be used at waste incinerators or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
Transport route	Road/Rail	Maritime	Air
14.1 – UN number	1987	1987	1987
14.2 – Proper transport name UN	ALCOHOLS N.O.S. (propan-2-ol, ethanol)	ALCOHOLS N.O.S. (propan-2-ol, ethanol)	Alcohols n.o.s.: (propan-2-ol, ethanol)
14.3 – Transport hazard class(es):			
14.4 – Packing group	III	III	III
14.5 – Environmental hazards	No		
14.6 – Special precautions for users	Transport in sealed containers, vertical, labelled.		
Detailed rules	274,601	223,274	A3, A180
Packing instructions	P001, IBC03, LP01, R001	P001, LP01	Civil airplanes: - Packaging instructions: 355 -max netto package volume: 60L Transport airplanes: - Packaging instructions: 366- max netto package volume: 220 L
LQ	5L	5L	- Packaging instructions Y344 - max count, netto package volume:10 L
EQ	E1	E1	E1
EmS	Not applicable	F-E, S-D	Not applicable



14.7 – Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable, the product is not classified as hazardous during transport	Not applicable, the product is not classified as hazardous during transport	Not applicable, the product is not classified as hazardous during transport
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**SECTION 15: Regulatory information**

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

1. The ordinance 1907/2006 (EC) of the European Parliament and Council, dated in 18 December 2006, on registration, evaluation, permissions and restrictions for chemicals (REACH), along with later modifications.
2. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance).
3. Law of 25 February 2011 on chemical substances and their mixtures (Journal of Laws No. 63, item. 322, along with later modifications)
4. European Parliament and Council Regulation of 16 December 2008 no. 1272/2008 (CLP) along with later modifications.
5. Ministry of Health Regulation of 20 April 2012 on dangerous substances and mixtures container labelling and certain mixtures (Journal of Laws 2012 No. 0 item. 445, along with later modifications)
6. Ministry of Health Regulation of 10 August 2012 on classification types and criteria of chemical substances and their mixtures (Journal of Laws 2012 item. 1018, along with later modifications)
7. Law of 9 December 2012 on waste list (Journal of Laws 2013 No. 0, item.21).
8. The Law of 13 June 2013 on packaging and packaging waste (Journal of Laws 2013, item. 888).
9. Regulation of the the Minister of Environment of 9 december 2014 on waste catalog (Journal of Laws No. 1923)
10. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.
11. The Law of 19 August 2011. on the transport of dangerous goods (Journal of Laws No. 227, item. 1367)
12. Government Statement of 23 March 2015. On the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957. (Journal of Laws 2015 , item. 882).
13. Regulation of the Minister of Labour and Social Policy of 12 June 2018 on maximum permissible concentration and intensity of harmful factors in the work environment (Journal item. 1286).
14. Regulation of the Minister of the Environment of 9 December 2003 on substances posing a particular threat to the environment (Journal of Laws No. 217, item.2141).

**15.2 Chemical safety assessment:** No chemical safety assessment for the mixture.

**SECTION 16: Other information**

**Phrases H:**

- H225** Highly flammable liquid and vapour
- H226** Flammable liquid and vapour
- H301** Toxic if swallowed
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage
- H319** Causes serious eye irritation
- H336** May cause drowsiness or dizziness
- H372** Causes damage to organs through prolonged or repeated exposure
- H400** Very toxic to aquatic life
- H410** Very toxic to aquatic life with long-lasting effects
- H411** Toxic to aquatic life with long-lasting effects
- H412** Harmful to aquatic life with long-lasting effects

**Description of used abbreviations, acronyms and symbols:**

- Flam. Liq.3** Highly flammable liquid and vapors cat 3
- Flam. Liq.2** Highly flammable liquid and vapors cat 2
- Acute Tox. 3** – acute toxicity cat. 3

**Acute Tox. 4** – acute toxicity cat. 4

**Skin Corr.1B** – corrosive effect on skin cat.1B

**Skin Corr.1C** – corrosive effect on skin cat.1C

**Eye Dam, 1** – causes serious eye damage, cat.1

**Eye Irrit.2** – eye irritation cat. 2

**STOT SE 3** Specific target organ toxicity - single exposure – cat 3

**STOT RE 1** Specific target organ toxicity - repeatable exposure – cat 1

**Aquatic Acute 1** – dangerous to aquatic environment cat.1

**Aquatic Chronic 1** – dangerous to aquatic environment cat.1

**Aquatic Chronic 2** – dangerous to aquatic environment cat.2

**Aquatic Chronic 3** – dangerous to aquatic environment cat.3

**LC50 – (ang. lethal concentration) medium** mortality dose of 50% in population of test organisms in long exposure

**LC50 – (ang. lethal concentration) medium** mortality dose of 50% in population of test organisms in 1 time exposure

**TWA** – Time weighted Average exposure limit

**STEL** – Acceptable Ceiling

**DNEL - (Derived no-effect level)** is the level of exposure to a substance above which humans should not be exposed.

**PNEC (Predicted No Effect Concentration)** is the concentration of a chemical which marks the limit at which below no adverse effects of exposure in an ecosystem are measured.

**IATA** International Air Transport Association

**ADR** a treaty governing transport of hazardous materials

**IMDG** International Maritime Dangerous Goods Code is accepted as an international guideline to the safe transportation or shipment of dangerous goods or hazardous materials by water on vessel

#### Training:

Before working with product carry out OSH training for staff related to the presence of chemical factor in the work environment. Carry out, register and inform employees about the evaluation of professional risk of working in presence of chemical factors

#### MATERIAL SAFETY DATA SHEET –Dr. Mayer Energy

- Issued date 16.10.2018
- Version ENG 2.0 of 15.05.2019
- Changes: section 1, 8, 15

#### SOURCE MATERIALS

Appendix I of EC Regulation 2015/830 of 28 May 2015

Regulations detailed in Section 15 of this document

MSDS – Dr. Mayer Energy v 1.0 EN

The information provided in this Safety Data Sheet concern only in the title mentioned product. The information given is designed as a guidance for safe handling, use, storage, transportation, disposal and it is not to be considered as legal warranty. In any case, you must comply with the laws and the possible rights of third parties. Sheet is not workplace risk assessment. Product cannot be used in other purpose then mentioned in section 1 without previous consultation with **MEDISEPT Sp z o.o.**