

MEDICLEAN MC510 Dishwashing liquid

Date of issue: 28.10.2012

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*Material Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 – REACH and 453/2010 of 20.05.2010***SECTION 1: Substance/mixture and company identification****1.1 Product Id:** MEDICLEAN MC510 Dishwashing liquid**1.2 Relevant identified uses of the mixture and uses advised against:**Identified uses: liquid for washing of cups, mugs, plates, cutlery, pots, etc.
Uses advised against: not specified.**1.3 Details of the supplier of the safety data sheet:****Manufacturer:** Medi-Sept Ltd.
Konopnica 159C, 21-030 Motycz, Poland
tel. (+48) 81 503 23 77
www.medisep.plPerson responsible for safety data sheet: Grzegorz Gromadzki; grzegorz.gromadzki@medi-sept.com.pl**1.4 Emergency telephone numbers:** 112 (international emergency number), 998 (firefighters), 999 (medical rescue);
(+48) 81 535 22 22 between 8.00 am. – 16.00 pm.**SECTION 2: Hazards identification****2.1 Classification of the substance/mixture**

The mixture is not classified as dangerous.

Risk to human health

Proper use does not pose a threat to human health.

Risk to environment

The mixture does not contain ingredients classified as dangerous to the environment.

Physical/chemical hazards

Not applicable.

2.2 Label elements:**Hazard symbols and warning signs:**

Not applicable.

Hazard statements:

Not applicable.

Phrases for conditions for safe use:

Not applicable.

Other information: MSDS available upon request of professional users.

Contains citral. May cause allergic reaction.

According to Regulation 648/2004

<5% non-ionic surface active components

<5% anionic surface active components

<5% atmospheric surface active components

Surface active components meet the biodegradability requirements in accordance with Regulation 648/2004.

List of components available on website: www.medisep.pl**2.3 Other hazards:**

No other hazards recognized.










No information about substances specified in PBT or vPvB according to REACH appendix XIII. Appropriate studies have not been conducted.

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable

3.2 Mixture:

Dangerous ingredients:

Product Id	Content %	Classification accord. 67/548/EWG	Classification CLP	
			Hazard class and category codes	Hazard statements
Sodium Dodecyl Benzene Sulfonate CAS: 68411-30-3 EC: 246-680-4 No. index: - No. REACH: 01-2119489428-22-0003	1,0 – 1,5	 Xn; R22  Xi; R36/38	Acute Tox.4 Eye Irrit.2 Skin Irrit.2	H302 H319 H315
ethoxylated < 2.5 EO, sulfates, sodium salts CAS: 68891-38-3 EC: - No. index: - No. REACH: 01-2119488639-16-xxxx	1,0 – 1,8	 Xi; R38, R41	Skin Irrit.2 Eye Dam.1	H315 H318
Etoxilated fatty alcohols C10-C16 CAS: 68002-97-1 EC: - No. index: - No. REACH: substance is subject to the transitional period	<0,5	 Xn; R22  Xi; R41	Acute Tox. 4 Eye Dam.1	H302 H318
Diethanoloamides of fatty acids CAS: 68603-42-9 EC: 931-329-6 No. index: - No. REACH: 01-2119490100-53-0003	<0,5	 Xi; R38, R41	Skin Irrit.2 Eye Dam.1	H315 H318
Betaine CAS: 61789-40-0 EC: 263-058-8 No. index: - No. REACH: 01-2119488533-30-0003	<0,5	 Xn; R22  Xi; R38, R41	Acute Tox.4 Skin Irrit.2 Eye Dam.1	H302 H315 H318
Citral CAS: 5392-40-5 EC: 226-394-6 No. index: - 605-019-00-3 No. REACH: substance is subject to the transitional period	<0,02	 Xi; R38 R43	Skin Irri.2 Skin Sens.1	H315 H317

Full description of R and H phrases in section 16.

SECTION 4: First Aid Measures

4.1 First aid measures description

Skin contact:

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The product is not dangerous. Wash with water and soap.

Eye contact:

Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Avoid strong streams of water to prevent cornea damages. Contact a doctor.

Inhalation:

The product is not dangerous. In case of dizziness and nausea move to fresh air.

Ingestion:

Do not induce vomiting, rinse mouth with water. If symptoms persist search for medical advice.

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

The respiratory system: no dangerous effects.

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 irritation in case of direct contact

Skin contact: long lasting, frequent and direct contact may cause redness and gentle skin irritation.

4.3 Indication of any immediate medical attention and special treatment:

Decision is to be taken by a doctor after having evaluated the condition of the victim.

SECTION 5: Firefighting measures**5.1 Extinguishing media:**

Appropriate extinguishing media: Use fire extinguishing methods suitable to surrounding conditions.

Not suitable means: not applicable.

5.2 Special hazards arising from substance or mixture: not applicable.**5.3 Advice for firefighters**

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

For non-emergency personnel: notify the competent authorities. Remove from the danger zone people not involved in the liquidation of failure.

For emergency personnel: Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions: Do not allow to enter sewerage or water bodies. Inform local authorities in case of inability to provide protection.

6.3 Methods and material for decontamination and cleaning up:

Prevent contamination by absorbing with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Place contaminated material in properly labelled containers according to applicable provisions.

6.4 Reference to other sections:

Product waste – see section 13

Personal protection – see section 8

SECTION 7: Handling and storage**7.1 Safety measures for appropriate handling:**

No special requirements. Work in accordance with safety instructions and hygiene: do not eat, drink and smoke in work areas, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas. In order to define safety measures prepare work station risks evaluation for all hazard control recommendations.

7.2 Conditions for safe storage, including any incompatibilities.

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Store in a cool, dry, well-ventilated area, properly labelled and tightly closed original container.

7.3 Specific end uses: liquid for washing of cubs, mugs, plates, cutlery, pots, etc.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Not applicable.

8.2 Exposure controls:

Appropriate technical controls: recommended well-ventilated areas.

Individual protective means such as gloves, glasses.

Eye and face protection:

Not required in normal usage conditions

Skin protection:

Hand protection:

Not required in normal usage conditions

Other:

Not required in normal usage conditions

Air passages protection:

Not required in normal usage conditions

Thermal hazards:

Not applicable.

Control of environmental exposure:

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Gel
Colour	Yellow
Odour	Lemon
Odour threshold value	Not specified
pH	approx. 7,0
Melting point/range	Not specified
Boiling point/range	approx. 100°C
Ignition temperature	Not specified
Burning temperature	Not specified
Evaporation rate	Not specified
Flammability (solid, gas)	Not specified
Low explosivity threshold	Not specified
High explosivity threshold	Not specified
Vapour pressure at 20°C	Not specified

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Relative density of vapours	Not specified
Density of vapours at 20°C	1,00 – 1,01 g/cm ³
Solubility in solvents	Not self-igniting
Partition coefficient n-octanol/water	Not specified
Auto ignition temperature	Not self-igniting
Decomposition temperature	Not specified
Dynamic viscosity at 23°C	Not specified
Kinematic viscosity at 20°C	Not specified
Explosion limits	Not specified
Oxidation properties	Not specified

9.2 Other information:

No additional test results.

SECTION 10: Stability and reactivity**10.1 Reactivity:**

Not known

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions:

Not applicable.

10.4 Conditions to avoid:

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

10.5 Incompatible materials:

None.

10.6 Hazardous decomposition products:

Not applicable.

SECTION 11: Toxicological information**11.1 Information on toxicological effects:**

- a) acute toxicity: not recognized
 Sodium Dodecyl Benzene Sulfonate
 LD50(rat, orally): 500-1000mg/kg
 Ethoxylated < 2.5 EO, sulfates, sodium salts
 LD50(rat, orally): >2000mg/kg
 LD50(rabbit, skin): >2000mg/kg
 Betaine [01-2119488533-30-0003]
 LD50(rat, orally): 5926mg/kg
 Diethanoloamides of fatty acids
 LD50(rat, orally) >9940mg/kg
- b) irritation effect: not recognized
 c) corrosive effect: not recognized
 d) allergic effect: not recognized
 e) repeated dose toxicity: no data
 f) carcinogenicity: not recognized
 g) mutagenicity: not recognized
 h) reproductive toxicity: not recognized

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The respiratory system: not known harmful effects.

The digestive tract: may cause irritation of the mucous membranes of the gastrointestinal tract, abdominal pain.

Eye contact: may cause skin irritation in case of direct exposure.

Contact with skin: long lasting, frequent, direct contact can cause redness.

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. The mixture is not classified as dangerous for the environment, contains ingredients harmful to the environment.

Do not allow product to reach ground water, drains and watercourses.

12.1 Toxicity:

Sodium Dodecyl Benzene Sulfonate

Toxicity for fish LC50: 670mg/l

Toxicity for crustaceans LC50: 6,6mg/l

Toxicity for protozoa LC50: 2350mg/l

Ethoxylated < 2.5 EO, sulfates, sodium salts

Toxicity for fish LC50: 1-28mg/l/96

Toxicity for crustaceans EC50: 1-10mg/l/48h

Toxicity for algae EC50: 7,5 mg/l/96h

Betaine

LC50 (fishes): 2 mg/l/48h

EC50(Ps. Putida): >100mg/l

Diethanoloamides of fatty acids

LC50(fishes) 6,9mg/l

LC50(daphnia) 6,2mg/l

12.2 Persistence and degradability:

Surfactants meet the requirements of biodegradability according to Regulation 648/2004.

12.3 Bioaccumulative ability:

No data.

12.4 Mobility in soil:

Mobile in the soil

12.5 Test result of PBT and vPvB assessment:

No data.

12.6 Other adverse effects:

No data.

SECTION 13: Disposal considerations**13.1 Waste treatment methods:**

Remainders of product and contaminated empty containers must be disposed as communal waste.

Environment Ministry Regulation of 27 September 2001 regarding disposal list (Journal of Laws No. 112, item 1206).

European Council Norms No 75/442/EEC - disposals, 91/689/EEC – dangerous disposals; Council Decision No. 2000/532/EC of 2 May 2000 which describes all disposals OJ No. L 226/3 of 6 September 2000r, along with all modifications.

SECTION 14: Transport information**14.1 Number UN (number UNO):** Not applicable, product not classified as dangerous in transport.

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14.2. Proper shipping name UN: Not applicable, product not classified as dangerous in transport.

14.3 Transport hazard class: Not applicable, product not classified as dangerous in transport.

14.4 Packing group: Not applicable, product not classified as dangerous in transport.

14.5 Environmental hazards: Not applicable, product not classified as dangerous in transport..

14.6 Special precautions for user: Not applicable, product not classified as dangerous in transport.

14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC Code: not applicable, product not classified as dangerous in transport.

SECTION 15: Regulatory information**15.1 Laws concerning the safety, health and environment specific for the substance or mixture:**

1. European Parliament and Council Regulation no. 1907/2006 of 18 December 2006 on registration, evaluation, authorization and restriction of chemicals (REACH) along with modifications.
2. EUROPEAN COMMISSION REGULATION No. 453/2010 of 20 May 2010 r. that changed Regulation no. 1907/2006 of European Parliament and Council related to registration, evaluation, authorization and restrictions of chemicals (REACH).
3. Law of 25 February 2011 on chemical substances and mixtures (Journal of Laws No. 63, unit. 322).
4. European Parliament and Council Regulation of 16 December 2008 no. 1272/2008 (CLP along with 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 unit 445).
6. Ministry of Health Regulation of 10 August 2012 on classification types and criteria of chemical substances and mixtures (Journal of Laws 2012 No. 0 unit 1018).
7. Ministry of Environment Regulation of 23 April 2004 on description of labelling patterns for containers (Journal of Laws No. 94, unit 927).
8. Ministry of Health Regulation of 11 June 2012 on categories of dangerous substances and mixtures stored in secured against children containers and with touch detectable warnings (Journal of Laws 2010 No. 0 unit 688).
9. Law of 14 December 2012 on waste list (Journal of Laws 2013 No. 0, unit 21).
10. Law of 11 May 2001 on containers and container disposals (Journal of Laws No. 63, unit 638 along with modifications).
11. Ministry of Environment Regulation of 27 September 2001 con list of disposals (Journal of Laws No. 112, unit 1206).
12. Council Directive No. 75/442/EEC concerning disposals, Council Directive No. 91/689/EEC on dangerous disposals, Commission Decision No. 2000/532/EC of 3 May 2000 on list of disposals, OJ No. L 226/3 of 6 September 2000 along with modifications
13. Law of 19 August 2011 on transport of dangerous materials (Journal of Laws No. 227, unit 1367).
14. Government Declaration of 23 March 2011 on introduction of changes detailed in appendix A and B of European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), prepared in Geneva on 30 of September 1057 (Journal of Laws No. 110, unit 641).
15. Ministry of Labour and Social Policy Regulation of 29 November 2002 on the maximum permissible concentrations and intensities of harmful factors in the work environment Journal of Laws No. 217, unit 1833 along with modifications).
16. Ministry of Health Regulation of 30 December 2004 on safety and hygiene related to the presence of chemical factors in work environment (Journal of Laws of 2005 No. 11, unit 86 along with modifications).
17. Ministry of Environment Regulation of 9 December 2003 on substances particularly dangerous to the environment (Journal of Laws No. 217, unit. 2141).

15.2 Chemical safety assessment:

No chemical safety assessment for the mixture.

SECTION 16: Other information

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*Material Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 – REACH and 453/2010 of 20.05.2010***Phrases R and H:****R22** – harmful if swallowed**R36/38** – irritating to eyes and skin**R38** – irritating to skin**R41** – risk of severe eye damage**R43** – may cause allergic reaction in contact with skin**H302** – harmful if swallowed**H315** – irritating to skin**H317** – may cause allergic reaction on skin**H318** – causes severe eye**H319** – irritating to eyes**Abbreviation, acronyms and symbols description:****Xn** – harmful**Xi** – irritating**Acute Tox. 4** – acute toxicity cat.4**Eye Irrit.2** – eye irritation cat.2**Eye Dam.1** – severe eye damage cat. 1**Skin Irrit.2** – irritating effect on skin cat.2**Skin Sens. 1** – allergic effect on skin**Training:**

Not required

MSDS – MEDICLEAN MC510 Dishwashing liquid

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Changes applied according to European Commission Regulation No. 453/2010 of 20 May 2010 appendix I.

SOURCE MATERIAL

Appendix I of EC Regulation 453/2010 of 20 May 2010.

Regulations detailed in Section 15 of this document.

Information of Bureau for Chemical Substance.

Material safety data Sheet - MEDICLEAN MC510 Dishwashing liquid

Information detailed in this data sheet concern exclusively the product stated in its title. All data should be considered only as a help in safe use of the product **MEDICLEAN MC510 Dishwashing liquid**. As the conditions of storage, transport and application are beyond our control, these can not stand for warranty in the meaning of law. In all cases, all proper regulations should be obeyed and third party persons laws respected. *The document should not be considered as an evaluation of risks in work place.* Product must not be used in other than stated in point 1 applications without previous notification to the company **Medi-Sept Ltd.**

Prepared by SPIN DORADZTWO www.spin-doradztwo.pl for **Medi-Sept Ltd.**