

SECTION 1: Substance/mixture and company identification**1.1 Product Id:** MEDICLEAN MC 550 Shine Clean**1.2 Relevant identified uses of the mixture and uses advised against:**

Identified uses: Dish rinse and shine for machine washers

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.com.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**

Classification according to 67/548/EEC or 1999/45/EC

Xi; R36

Classification according to 1272/2008

Eye Irrit. 2; H319

Risk to human health

Irritating in contact with eyes.

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:****Warning phrase: Danger****Hazard statements:****H319** – irritating in contact with eyes**Phrases for conditions for safe use:****P280** – use protective gloves/clothing/eye and face protection.**P305+P351+P338** – IN CASE OF EYE CONTACT: Carefully rinse with water for a few minutes. Quit contact lenses if worn and possible to remove.**P337+P313** – if eye irritation persists: search for medical advice.**2.3 Other hazards:**



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
Citric acid No. Index: - CAS: 77-92-9 EC: 201-069-1 No. REACH: 01-2119457026-42-XXXX	5 – 10	 Xi: R36	Eye Irrit. 2	H319
Sodium cumene sulphonate No. index: - CAS: 28348-53-0 EC: 248-983-7 No. REACH:01-2119489411-37-XXXX	<5	 Xi: R36	Eye Irrit. 2	H319

Full description of R and H phrases in section 16.

SECTION 4: First Aid Measures

4.1 First aid measures description

Skin contact:

Wash contaminated skin with water and soap, rinse with water. In case of irritation, redness contact a doctor.

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:

In case of dizziness and nausea move to fresh air. If symptoms persist search for medical advice.

Ingestion:

Do not induce vomiting, rinse mouth with water. Immediately contact a doctor.

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

The respiratory system: Inhalation of concentrated vapours may cause irritation of the mucous membranes of the nose and throat.

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

Skin contact: causes burns.

Eye contact: may cause burns as a consequence of frequent contact.

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: alcohol-resistant foam or dry chemicals (A,B,C), carbon dioxide (extinguisher), sand or soil, water fog. Use fire extinguishing methods suitable to surrounding conditions.

Not suitable means: Heavy jet of water.

5.2 Special hazards arising from substance or mixture: During a fire or under the action of high temperature release of toxic degradation products containing, among other substances, oxides of carbon.

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. Avoid direct contact with eyes and skin. Do not breath vapours.

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:**

Use in well-ventilated area. Avoid eye contact. Avoid prolonged or repeated contact with skin. Avoid spilling or splashing. Do not breath vapours. Keep away from sources of ignition, high temperature, hot surfaces and open fire. 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.

7.2 Conditions for safe storage, including any incompatibilities.

Store in a cool, dry, well-ventilated area, properly labelled and tightly closed original container. Keep away from heat and direct sunlight, hot surfaces and open fire.

7.3 Specific end uses: highly concentrated liquid for rinse and shine for machine washers.

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 *on the maximum permissible concentrations and intensities of harmful factors in the work environment* dated 29 November 2002 (Journal of Laws No. 217, item 1833 along with modifications).

8.2 Exposure controls:

Appropriate technical controls: recommended well-ventilated areas.

Individual protective means such as gloves, glasses.

**Eye and face protection:**

Wear framed glasses or face mask (according to EN 166)

Skin protection:

Hand protection:

Wear protective nitrile, natural rubber or PVC gloves according to 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:

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Air passages protection:

Not required. Avoid concentrated vapours

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	Liquid
Colour	Transparent
Odour	Neutral
Odour threshold value	Not specified
pH	3,0
Melting point/range	Not specified
Boiling point/range	Not specified
Ignition temperature	Not specified
Low ignition threshold	Not specified
High ignition threshold	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	Not specified
Relative Density of vapours	Not specified
Density	1,04 – 1,05 g/cm ³
Solubility in solvents	Complete in water
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 explosive
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:

Avoid contact with acids.

10.6 Hazardous decomposition products:

In high temperature toxic decomposition products can be released – carbon oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

a) acute toxicity: not recognized

Citric acid:

LD50 (orally, rat): 11700mg/kg;

LD50 (peritoneally, mouse): 5040mg/kg

LD50 (skin, rat): 885mg/kg

LD50 (skin, mouse): 961mg/kg

Sodium cumene sulphonate

LD50 (orally, rat): >7000mg/kg

LD50 (skin, rabbit): >2000mg/kg

b) irritation effect: irritating to eyes

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

Information on likely routes of exposure:

The respiratory system: inhalation of concentrated vapours may cause irritation of the mucous membranes of the nose and throat.

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

Skin contact: causes irritation.

Eye contact: may cause irritation as a consequence of frequent contact.

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:Citric acid:

Fish (golden fish): LC50 440-706mg/l, 96h

Sodium cumene sulphonate:

Fishes: LC50 >1000mg/l, 96h

Invertebrates: EC50 >1000mg/l, 48h

Algae: ErC50 >310mg/l, 72h

Bacteria (active residue): ErC50 >1000mg/l, 48h

12.2 Persistence and degradability (biodegradability abilities):

Sodium cumene sulphonate: hardly biodegradable

Citric acid: easily biodegradable >98% in 28days

Chemical Oxygen Demand (COD): 728mg O₂/g

Biochemical Oxygen Demand in 5 days (BOD5): 526mg O₂/g

12.3 Bioaccumulative ability:

Sodium cumene sulphonate: log: -1,1 (low)

12.4 Mobility in soil:

No data.

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:**

Reminders of the product must be handled by professional waste treatment service provider in order to be disposed in accordance with local regulations.

Working dilution and cleaned container 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

14.2 Proper shipping name UN: not applicable

14.3 Transport hazard class: not applicable

14.4 Packing group: not applicable

14.5 Environmental hazards: not applicable

14.6 Special precautions for user: transport in locked containers in upright position, properly labelled and secured.

14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC Code: not applicable

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 10 October 2013 on changes to the regulation on categories of dangerous substances and mixtures stored in secured against children containers and with touch detectable warnings (Journal of Laws 2013 no. 0 unit 1225).
9. Law of 14 December 2012 on waste list (Journal of Laws 2013 No. 0, unit 21).
10. Law of 13 June 2013 on container handling and disposal (Journal of Laws 2013, unit 888).
11. Ministry of Environment Regulation of 27 September 2001 on 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

Phrases R and H:

R36 – irritating to eyes

H319 – irritating to eyes

Abbreviation, acronyms and symbols description:

Xi– irritating

Eye Irrit. 2 – eye irritation effect cat. 2

MEDICLEAN MC 550 Shine Clean

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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

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.

MSDS – **MEDICLEAN MC 550 Shine Clean**

- Date of issue: 15.05.2014
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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.

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 MC 550 Shine Clean**. 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.**