

MEDICLEAN MC 141
Acrylic coating for hard floor protection

Date of issue 11.02.2013

updated: 12.04.2013

Version ANG: 1.0

Material Safety Data Sheet according to Regulation EC 1907/2006 of 18.12.2006 – REACH and 453/2010 of 20.05.2010

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

1.1 Product id: MEDICLEAN MC 141 Acrylic coating for hard floor protection

1.2 Relevant identified uses of the mixture and uses advised against:

Recommended use: Urethane protective coating for washable surfaces
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.pl

Person 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

The proper use does not pose a threat to human health.

Risk to environment

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

Physical/chemical

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.

2.3 Other hazards:

No additional hazards

No information about substances specified in PBT or vPvB according to 1907/2006/EG annex XIII.

Appropriate studies have not been conducted.

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable

3.2 Mixture:

Hazardous ingredients:

Product Id	Content %	Classification accord. 67/548/EWG	Classification CLP	
			Hazard class and category codes	Hazard statements



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Tris (2-ethylhexylo)phosphate CAS: 78-42-2 EC: 201-116-6 No. index: - No. REACH: substance is subject to the transitional period	<1	 Xi; R36/38	Skin Irrit. 2 Eye Irrit. 2	H315 H319
Mono ethylene glycol CAS: 107-21-1 EC: 203-473-3 No. index: 603-027-00-1 No. REACH: substance is subject to the transitional period	1	 Xn; R22	Acute Tox. 4	H302

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Skin contact:

Wash affected areas with soap and water and rinse well. Immediately take off all contaminated clothing. If skin irritation persists, contact doctor.

Eye contact:

Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing with running water. If symptoms persists, call a doctor.

Inhalation:

In case of dizziness and nausea move to fresh air. If symptoms persists, obtain medical advice.

Ingestion:

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

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

The respiratory system. Harmful effects unknown.

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: Harmful effects unknown.

Contact with skin: Harmful effects unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically by a doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: alcohol-resistant foam or dry chemicals (A,B,C), carbon dioxide (fire extinguisher).

Use fire extinguishing methods suitable to surrounding conditions.

Not suitable: Heavy jet of water.

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

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For non-emergency personnel: the failure to 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. 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 containment and cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Contaminated material placed 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 Precautions for safe handling:

Use in well-ventilated area. 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. For all specific recommendations given carry out risk assessment at the workplace in order to help determine controls appropriate to local circumstances.

7.2 Conditions for safe storage, including any incompatibilities.

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

Keep away from heat and direct sunlight, hot surfaces and open fire.

7.3 Specific end uses: Urethane protective coating for washable surfaces

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).

Name / type of substance	NDS	NDSch	NDSP
	mg/m3		
Mono ethylene glycol	15	50	-

Mono ethylene glycol

DNEL, worker, long term exposure, skin, general effect:: 106mg/kg

DNEL, worker, long term exposure, inhalation, local effect 35mg/m3

DNEL, user, long term exposure, skin, general effect: 53mg/kg

DNEL, user, long term exposure, inhalation, local effect: 7mg/m3

PNEC:

fresh water: 10mg/l

seawater: 1mg/l

mixed waters: 10mg/l

fresh water residue: 20,9mg/kg

water treatment facility: 199mg/l

8.2 Exposure controls:

Appropriate technical controls: recommended well-ventilated areas.

Indyvidual protective means such as gloves, glasses.

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Eye and face protection:

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

Skin protection:

Hand protection:

Wear protective nitrile, natural rubber or PCV 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:

Wear appropriate protective work wear according to EN 344 – wash regularly.

Air passages protection:

Do not breath vaporous

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	White
Odour	Very characteristic
Odour threshold	Not specified
pH	Approx. 8
Melting point/range	Approx. 0 °C
Boiling point/range	Approx. 95°C
Flash point	Not specified
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 vapour density	Not specified
Density at 20 °C	1,01-1,02 g/cm ³

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Solubility in solvents	Completely soluble in water
Coefficient n-octanol/water	Not specified
Auto-ignition temperature	Not self-igniting
Decomposition temperature	Not specified
Dynamic viscosity at 25°C	50 mPa·s
Kinematic viscosity at 22°C	Not specified
Explosive properties	Not specified
Oxidizing properties	Not specified

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.

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:

No data.

10.6 Hazardous decomposition products:

Not applicable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

- a) acute toxicity: not recognized
Tris (2-ethylhexylo)phosphate
LD50 orally, rat: 37000mg/kg
LC50 inhalation, guinea pig: 450mg/m³/30h
LD50 skin, rabbit: 20000mg/kg
Mono ethylene glycol
LD50 orally, rat: 7712mg/kg
LC50 inhalation, vapour, rat: >2,5mg/l/6h
LD50 skin, mouse: >3500mg/kg
- b) irritant effect: not recognized
- c) corrosion: not recognized
- d) allergic: 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. Harmful effects unknown.

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.

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Eye contact: Harmful effects unknown.

Contact with skin: Harmful effects unknown.

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:

Mono ethylene glycol

Fishes: LC50 (96h): 72860mg/l (Pimephales promelas)

Invertebrates: EC50 (48h): 13900-57600mg/l (Daphnia magna)

Algae: EC50 (96h): 6500-13000mg/l (Pseudokirchnerella subcapitata)

Microorganisms: TTC (EC5) >10000mg/l/16h (pseudomonas putida)

Active residue of water treatment facility EC20 > 1995mg/l/30min.

Chronic toxicity

Fishes: NOEC 15380mg/l/7days (Pimephales promelas)

Invertebrates: NOEC 8590 mg/l/7 days

12.2 Persistence and degradability:

Mono ethylene glycol

Easily biodegradable: 90-100% after 10 days (RWO test)

DT50: approx. 46,3h

12.3 Bioaccumulative ability:

Mono ethylene glycol accumulation in organisms not expected.

Log Ko/c = 0

Log Ko/w = -1,36

12.4 Mobility in soil:

Mono ethylene glycol is not mobile in 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:**

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 UN number :** Not applicable. Product is not classified as dangerous in transport.**14.2. UN proper shipping name:** Not applicable. Product is not classified as dangerous in transport.**14.3 Transport hazard class:** Not applicable. Product is not classified as dangerous in transport.**14.4 Packing group:** Not applicable. Product is not classified as dangerous in transport.**14.5 Environmental hazards:** Not applicable. Product is not classified as dangerous in transport.

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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. .

SECTION 16: Other information**Phrases R and H:****R22** – harmful if swallowed**R36/38** – irritant in contact with skin and eyes**H302** – harmful if swallowed**H315** – irritant to skin**H319** – irritant to eyes**Abbreviation, acronyms and symbols description:****Xn** – harmful**Xi** – irritating

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Acute Tox. 4 – acute toxicity cat. 4

N – dangerous to the environment

Eye Irrit. 2 –irritant to eyes cat. 2

Skin Irrit. 2 - irritant to skin cat. 2

Training: Not required.

MSDS – **MEDICLEAN MC 141**

- Issuing date: 11.02.2013
- ANG version 1.0 of 28.11.2014

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 save use of the product **MEDICLEAN MC 141**. 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.**