

MEDICLEAN MG 121
Concentrate for cleaning sanitary facilities

Date of issue 11.02.2013

updated: 12.04.2013

Version ANG: 1.0

*Material Safety Data Sheet according to Regulation WE 1907/2006 from 18.12.2006 – REACH and 453/2010 from 20.05.2010r.***SECTION 1: Identification of the mixture and of the company/undertaking**

1.1 Product identifier: MEDICLEAN MG 121 High-alkaline concentrate stripper for removing protective coatings

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

Recommended use: For removing and cleaning the old wax and polymer coatings on the alkali-resistant surfaces (terrazzo, PVC, tiles, floor tiles) Designed to use before applying new layer.

Uses advised against: not specified

1.3 Details of the supplier of the safety data sheet:

Manufacturer: Medi-Sept Sp. z o.o.
Konopnica 159C, 21-030 Motycz
tel. (+81) 503 23 77
www.medisep.com.pl

E-mail address of the person responsible for safety data sheet: grzegorz.gromadzki@medi-sept.com.pl

E-mail address of the person responsible for translation: aleksandra.majewska@medi-sept.com.pl

1.4 Emergency telephone number: +48 81 535 22 22 in hours: 8.00 – 16.00
International emergency number: 112

SECTION 2: Hazards identification**2.1 Classification of the substance/mixture**

C; R35

Risk to human health

Causes severe burns.

Risk to environment

The mixture does not contain ingredients harmful to the environment.

Physical/chemical

No.

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

C – Corrosive

Hazard statements:

R35 – Causes severe burns.

Phrases for conditions for safe use:**S1/2** – Keep locked up and out of the reach of children**S26** – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice**S36/37/39** – Wear suitable protective clothing, gloves and eye/face protection.**S45** – If swallowed, seek medical advice immediately and show this container or label.

Contains: sodium hydroxide, monoethanolamine, sodium metasilicate

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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 identifier	Content %	Classification acc. to 67/548/EWG	Klasyfikacja CLP	
			Hazard class and category codes	Hazard statements
Monobutyl ether of di ethylene glycol CAS: 112-34-5 WE: 203-961-6 Index number: 603-096-00-8 Nr REACH: 01-2119475104-44-XXXX	10 – 20	 Xi; R36	Eye Irrit.2	H319
Sodium hydroxide CAS: 1310-73-2 WE: 215-185-5 Index number: 011-002-00-6 Nr REACH: 01-2119457892-27-XXXX	2 – 3,5	 C; R35	Skin Corr. 1A	H314
2-aminoethanol CAS: 141-43-5 WE: 205-483-3 Index number: 603-030-00-8 Nr REACH: 01-2119486455-28-XXXX	2,5 - 5	  Xn; R20/21/22 C; R34	Acute Tox.4 Skin Corr. 1B	H332 H312 H302 H314
Metasilicate CAS: 10213-79-3 WE: 229-912-9 Index number: - Nr REACH: 01-2119449811-37-XXXX	2 - 3	  C; R34 Xi; R37	Skin Corr. 1B STOT SE 3	H314 H335
Sodium salt of N-(2-carboxyethyl)-N-(2-ethylhexyl)-β-alaninate CAS: 94441-92-6 WE: 305-318-6 Index number: - REACH number: the substance is subject to the transitional period	1 - 3	 Xi; R38, R41	Skin Irrit.2 Eye Dam.1	H315 H318
EDTA tetrasodium salt CAS: 64-02-8 WE: 200-573-9 Index number: 607-428-00-2 REACH number: the substance is subject to the transitional period	0,5 - 0,9	  Xn; R22 Xi; R41	Acute Tox. 4 Eye Dam.1	H302 H318

The full texts of the mentioned R-phrases and hazard statements (H) are listed in chapter 16.

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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. Inhalation of concentrated vapors may cause irritation of the mucous membranes of the nose, throat and downstream sections of the respiratory system, cough, shortness of breath, trouble breathing.

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: Cause burns.

Contact with skin: Cause burns.

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:

During a fire, under the action of high temperature release of toxic degradation products containing min. 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: 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 vapors.

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 labeled containers according to applicable provisions.

6.4 Reference to other sections

Product waste – see section 13

Personal protection – see section 8

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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 labeled and tightly closed original container. Keep away from heat and direct sunlight, hot surfaces and open fire.

7.3 Specific end uses:

For removing and cleaning the old wax and polymer coatings on the alkali-resistant surfaces (terrazzo, PVC, tiles, floor tiles) Designed to use before applying new layer.

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 as later amended)

Exposure limits:

Substance	NDS	NDSch	NDSP
	mg/m3		
Sodium hydroxide	0,5	1	-
Diethylene glycol monobutyl ether	67	100	-
2-aminoethanol	2,5	7,5	-

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 (acc. EN 166)

Skin protection:

Hand protection:

Wear protective nitrile, natural rubber or PCV gloves according 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 workwear acc. EN 344 – wash regularly.

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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	Colourless
Odour	Product specific
Odour threshold	Not specified
pH	14,0
Melting point/range	Not specified
Boiling point/range	ca. 99 °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
Realtive vapor density	Not specified
Density at 20 °C	1,045 – 1,055 g/cm ³
Solubility in solvents	Completely soluble in water
Coefficient n-octanol/water	Not specified
Auto-ignition temperature	No
Decomposition temeperature	Not specified
Viscosity	Not specified
Kinematic viscosity at 22°C	1,2 mm ² /s
Explosive properties	Not specified



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Oxidizing properties	Not specified
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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 reactons:

No

10.4 Conditions to avoid:

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

10.5 Incompatible materials :

Strong acids

10.6 Hazardous decomposition products:

No

SEKCJA 11: Toxicological information

11.1 Information on toxicological effects:

- a) acute toxicity: not recognized
- Diethylene glycol monobutyl ether
- LD50 (rat, oral): 3384 mg/kg
- LD50 (rabbit, skin):2764 mg/kg
- Sodium hydroxide
- LD50 (szczur, doustnie): >273 mg/kg
- Metasilicate
- LC50 (rat, oral): 1152-13490 mg/kg
- Fatty alcohol ethoxylate
- LD50 (rat, oral):2000 mg/kg
- Monoethanolamine
- LD50 (rat, oral):1510 mg/kg
- LD50 (rabbit, skin):1000 mg/kg

- b) irritant effect: Irritating to eyes and skin.
- c) corrosion: causes severe burns
- d) allergic: not recognized
- e) repeated dose toxicity: no data
- f) carcinogenicity: does not show
- g) mutagenicity: not shown
- h) reproductive toxicity: does not show

Information on likely routes of exposure:

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

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: Cause irritation.

Contact with skin: Cause irritation.

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

No data.

Interaction effect:

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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:

Diethylene glycol monobutyl ether

Toxicity to fish LC50 1300 mg/l/96h (Lepomis macrochirus)

Toxicity to invertebrate EC50 >100 mg/l/96h (Daphnia magna)

Sodium hydroxide

LD100 (rabbit, oral): 500 mg/kg

LD50 (rabbit, skin): 1350 mg/kg

Fatty alcohol ethoxylate

Toxicity to fish LC50: 850 mg/dm³Toxicity to flea LC50: 9,8 mg/dm³Toxicity to algae LC50: 2340 mg/dm³

Metasilicate

Toxicity to fish LC50: 210 mg/l/96h

Toxicity to shellfish UE50: 1700 mg/l/48h (Daphnia magna)

Toxicity to algae IC50: 207 mg/l/7d (Scenedesmus quadricauda)

Toxicity to bacteria UE5: 6500 mg/l/16h (Pseudomonas putida)

Monoethanolamine

Toxicity to fish LC50: 170 mg/l/96h (Carassius auratus)

Toxicity to fish EC50: 65 ppm (Daphnia magna)

Sodium salt of N-(2-carboxyethyl)-N-(2-ethylhexyl)-β-alanine

Toxicity to fish LC50: >100 mg/l/96h

Toxicity to shellfish UE50: >100 mg/l

Toxicity EC 50 70 mg/l po 48h

12.2 Persistence and degradability:

No data

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 in accordance with local and state regulations. The rest place in original containers. Utilize in accordance with valid regulations. Empty containers should be disposed of in accordance with regulations or provide for appropriate landfill.

SECTION 14: Transport information**14.1 UN number :** 1719.**14.2. UN proper shipping name:** corrosive, liquid, alkali**14.3 Transport hazard class:** 8**14.4 Packing group:** III**14.5 Environmental hazards:** Not applicable**14.6 Special precautions for user:** No data.**14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC Code:** No data.

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Detail information available upon request.

15.2 Chemical safety assessment:

No chemical safety assessment. .

SECTION 16: Other information**Text of R and H-Phrases:****R20/21/22** – When using, do not eat, drink or smoke**R22** – Harmful if swallowed.**R34** – Causes burns**R35** – Causes severe burns**R36** – Irritating to eyes.**R37** – Irritating to eyes and skin.**R38** – Irritating to skin.**R41** – Risk of serious damage to eyes.**H302** – Harmful if swallowed.**H312** – Harmful if contact with skin**H314** – Causes severe skin burns and eye damage**H315** – Causes skin irritation.**H318** - Causes serious eye damage.**H319** – Irritating to eyes**H332** – Harmful if inhaled**H335** – May cause irritation of the respiratory tract**Abbreviation, acronyms and symbols description:****C** – Corrosive**Xn** – Harmful**Xi** – Irritant**Acute Tox. 4** – acute toxicity cat.4**Eye Irrit.2** – Eyes irritating cat.2**Skin Corr. 1B** – Skin irritating cat.1B**Eye Dam.1** – Serious eye damage**Skin Irrit.2** – Skin irritation cat.2**Skin Sens. 1** – Skin sensitization**Aquatic Chronic 2** – Posing a threat to the aquatic environment cat. 2**Aquatic Chronic 3** – Posing a threat to the aquatic environment cat. 3

NDS – The highest concentration

NDSP – The highest ceiling

NDSCh – The highest temporary

Training:

Before starting to work with employees health and safety training is mandatory because of the presence of chemicals in the workplace. Perform, document and familiarize employees with the results of the risk assessment in relation to the presence of chemical agents.

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MATERIAL SAFETY DATA SHEET – **MEDICLEAN MG 121**

- Issuing date: 28.10.2012
- ANG version 1.0 from 19.09.2013

Sources:

PL version .

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 **Medi-Sept Sp. z o.o.**

Original Polish Version made by SPIN-DORADZTWO www.spin-doradztwo.pl for **Medi-Sept Sp. z o.o.**

Translation made by Aleksandra Majewska aleksandra.majewska@medi-sept.com.pl