

MEDICLEAN MG 160
Cleaner neutralizer and salt remover

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 160 Cleaner neutralizer and salt remover**1.2 Relevant identified uses of the mixture and uses advised against:**

Recommended use: Preparation for cleaning tiles and removing salt from the floor.
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.pl

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

Xi; R36

Risk to human health

Irritating to eyes.

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:**

Xi – Irritant

Hazard statements:**R36** – Irritating to eyes.**Phrases for conditions for safe use:****S2** – Keep out of the reach of children**S26** – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice**S46** – If swallowed, seek medical advice immediately and show this container or label.According to regulation. 648/2004Contains:

<5% nonionic surfactants

<5% amphoteric surfactants

<5% EDTA Na4

Fragrance mixture

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

Ingredient data sheet available at: www.medisep.pl

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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	Klasifikacija CLP	
			Hazard class and category codes	Hazard statements
sodium salt of N-(2-carboxyethyl)-N-alkyl-β-alaninate CAS: 94441-92-6 WE: 305-318-6 Index number: - <u>REACH number:</u> the substance is subject to the transitional period	<1,5	 Xi ; R38; R41	Skin irrit. 2 Eye Dam. 1	H315 H318
Pyrophosphate Tetrapotassium CAS: 7320-43-5 WE: 230-785-7 Index number: - <u>REACH number:</u> the substance is subject to the transitional period	2 – 3	 Xi; R36	Eye Irrit.2	H319
Citric acid CAS: 5949-29-1 WE: 201-069-1 Index number: - <u>REACH number:</u> 01-2119457026-42-XXXX	5 – 7	 Xi; R36	Eye Irrit.2	H319
Phosphoric acid 75% CAS: 7664-38-2 WE: 231-633-2 Index number: 015-011-00-6 <u>REACH number:</u> 01-2119485924-24-XXXX	<7	 C; R34	Skin Corr. 1B	H314
Fatty alcohol ethoxylate C9-C11 CAS: 68439-45-2 <u>WE:</u> - Index number: - <u>REACH number:</u> the substance is subject to the transitional period	<2	 Xn; R22  Xi; R41	Acute Tox. 4 Eye Dam. 1	H302 H318
<u>EDTA tertrasodium salt</u> CAS: 64-02-8 WE: 200-573-9 Index number: 607-428-00-2 <u>REACH number:</u> 01-2119486762-27-XXXX	<0,5	 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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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 irritations.

Contact with skin: May cause irritation due to frequent contact.

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:**

Use fire extinguishing methods suitable to surrounding conditions.

Not suitable: No.

5.2 Special hazards arising from substance or mixture:

No.

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.

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 (recommended temperature from 5°C to 30°C), dry, well-ventilated properly labeled and tightly closed original container.

Keep away from strong acid.

7.3 Specific end uses:

. Preparation for cleaning tiles and removing salt from the floor.

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/m ³		
Phosphoric acid	1	2	-

Phosphoric acid:

DNEL for employees, long-term exposure: 2,92mg/m³

DNEL for consumer, long-term exposure: 0,73mg/m³

PNEC – for PH – secure PH value comprised between 6 and 9

EDTA tetrasodium salt

DNEL for employees, long-term exposure, general and local effects, inhalation exposure: 2,5mg/m³

DNEL: for employees, long-term exposure, general and local effects, inhalation exposure 2,5mg/m³

DNEL for consumer, long-term exposure, general and local effects, inhalation exposure: 1,5mg/m³

DNEL: for consumer, long-term exposure, general and local effects, inhalation exposure 1,5mg/m³

DNEL for consumer, long-term exposure, general effects, dietary exposure: 25mg/kg/daily

PNEC:

For fresh water: 2,2mg/l

For sea water: 0,22mg/l

Sporadic release: 1,2mg/l

Soil: 0,72mg/kg

Sewage treatment plant: 43mg/l

8.2 Exposure controls:

Appropriate technical controls: recommended well-ventilated areas.

Individual protective means such as gloves, glasses.



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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.

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	Sea
Odour threshold	Not specified
pH	1,0 – 2,0
Melting point/range	Not specified
Boiling point/range	ca. 100 °C
Flash point	>100°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
Realtive vapor density	Not specified
Density at 20 °C	1,08 – 1,09 g/cm ³
Solubility in solvents	Completely soluble in water
Coefficient n-octanol/water	Not specified

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Auto-ignition temperature	No
Decomposition temperature	Not specified
Viscosity	Not specified
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 reactons:

No

10.4 Conditions to avoid:

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

10.5 Incompatible materials :

Strong acid.

10.6 Hazardous decomposition products:

At high temperatures toxic products of decomposition release – oxides of carbon.

SEKCJA 11: Toxicological information

11.1 Information on toxicological effects:

a) acute toxicity: not recognized
sodium salt of N-(2-carboxyethyl)-N-alkyl-β-alaninate

LD50 (rat, orally): >5000 mg/kg

Pyrophosphate tetrapotassium

LD50 (mouse, orally): >2000 mg/kg

Citric acid

LD50 (rat, orally): 11700mg/kg

LD50 (mouse, orally): 5040mg/kg

LD50 (rat, skin): 885mg/kg

LD50 (mouse, skin): 961mg/kg

Phosphoric acid

LD50 (female rat, orally): 1,7 ml/100g body weight (2600mg/kg)

Fatty alcohol ethoxylate C9-C11

LD50 (rat, orally): >1200mg/kg

EDTA tetrasodium salt

LD50 (rat, orally): >2000mg/kg

LC50 (inhalation): 1000-5000mg/m³/6h (OECD 403)

b) irritant effect: Irritating to eyes.

c) corrosion: not recognized

d) allergic: not recognized

e) repeated dose toxicity: no data

f) carcinogenicity: does not show

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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: May cause irritation due to 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:Sodium salt of N-(2-carboxyethyl)-N-alkyl-β-alaninate

EC50 48h: > 100 mg/l (Daphnia magna)

LC50 96h: > 100 mg/l (Onchorhynchus mykiss)

NOEC 96h: 100 mg/l (Onchorhynchus mykiss)

48h: > 100 mg/l (Daphnia magna)

Pyrophosphate Tetrapotassium

LC0 – 750mg/l/48h

Citric acid

LC50, 96h – gold fish: 440-706mg/l

Phosphoric acid

Daphnia magna: EC50 (48h): >100mg/l OECD 202

Desmodesmus subspicatus (algae): EC50 (72h): >100mg/l OECD 201

Desmodesmus subspicatus (algae):NOEC (72h) >100mg/l OECD 201

Sodium salt of N-(2-carboxyethyl)-N-alkyl-β-alaninate

Toxicity to fish LC50:>100mg/l (Lepomis macrochirus) OPP 72-1 EPA

Toxicity to daphnia EC50:>100 mg/l/48h (Daphnia magna) DIN38412 part 11, static

Toxicity to algae EC50:>100mg/l/72h (Scenedesmus obliquus)

Toxicity to microorganism: EC20 >500mg/l/30min. (osad czynny) OECD 209

Toxicity to soil organisms: LC50 156mg/kg/14 days (Eisenia foetida) OECD 207

Acute toxicity to fish: NOEC >=36,9mg/l/35 days (Brachydanio rerio) OECD 210

Acute toxicity to daphnia: NOEC 25mg/l/21 days (Daphnia magna) OECD 211

12.2 Persistence and degradability:

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

Sodium salt of N-(2-carboxyethyl)-N-alkyl-β-alaninate

90%, 28 days >60%

Fatty alcohol ethoxylate C9-C11

76 % - 28 days – easily biodegradable

Citric acid

easily biodegradable: >98% after 2 days (acc. OECD 302B)

chemical oxygen demand (COD): 728 mgO₂/g

biological oxygen demand within 5 days (BOD 5): 526 mg O₂/g

EDTA tetrasodium salt

Difficult biodegradable.

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12.3 Bioaccumulative ability:

EDTA tetrasodium salt BCF: ca. 1,8 (28 days)

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 : 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.

14.6 Special precautions for user: Not applicable. Product is 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 is 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.

Detail information available upon request.

15.2 Chemical safety assessment:

No chemical safety assessment. .

SECTION 16: Other information

Text of R and H-Phrases:

R22 – Harmful if swallowed.

R34 – Causes burns

R36 – Irritating to eyes.

R38 – Irritating to skin.

R41 – Risk of serious damage to eyes.

H302 – Harmful if swallowed.

H314 – Causes severe skin burns and eye damage

H318 - Causes serious eye damage.

H319 – Irritating to eyes

H315 – Irritating to skin.

Abbreviation,acronims 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

Skin Irrit.2 – Skin irritation cat.2

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Eye Dam.1 – serious eye damage cat. 1

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.

MATERIAL SAFETY DATA SHEET – **MEDICLEAN MG 160**

- Issuing date: 17.06.2013
- ANG version 1.0 from 23.09.2013

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.**

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