

MATERIAL SAFETY DATA SHEET

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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: Substance/mixture and company identification

1.1 Product Id MEDICLEAN MG 131 Bruk Clean
Designed for paving and stone floors

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

Identified uses: Preparation for cleaning of hardly industrial and alkali proof flooring. Removes oily residues (greases, oils, tar based dirt, exploitation reminders, gases, etc.). Applied on concrete, natural and artificial stone, paving, clinker bricks. For hand and machine cleaning.

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.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

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

Xi; R36/38

Classification according to 1272/2008

Skin Irrit. 2; H315

Eye Dam. 1; H318

Risk to human health

Causes serious eye damage. Irritant to skin.

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

Warning phrase: Danger

H315 – irritant to skin

H318 – causes serious eye damage

Phrases for conditions for safe use

P280 – use protective gloves/clothing/eye and face protection.

P302+P352 – IN CASE OF SKIN CONTACT: wash with plenty of water with soap.

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.

MATERIAL SAFETY DATA SHEET**MEDICLEAN MG 131 Bruk Clean**

Date of issue: 15.06.2014

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

P337+P313 – if eye irritation persists: search for medical advice.**Contains:**

Alcohols, C9-11, branched and linear, etoxylated 5-20 TE (CAS: 160901-09-7);

Sodium hydroxide (CAS: 1310-73-2)

Contains 5-15% non-ionic surface active components









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

List of components available on website: www.medisept.pl**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
2-(2-butoxyetoxy) ethanol No. index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 No. REACH: 01-2119475104-44-XXXX	< 10	 Xi: R36	Eye Irrit. 2	H319
Product of mass reaction of ethanol and 2-propanol No. index: - CAS: - EC: 902-053-3 No. REACH: 01-2119529230-52-XXXX	<2	 F; R11  Xi: R36 R67	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
Alcohol, C9-11, branched and linear, etoxylated 5-20 TE No. index: CAS: 160901-09-7 EC: No. REACH:	<2	 Xn; R22  Xi; R41	Acute Tox. 4, Eye Dam. 1,	H302 H318
Sodium hydroxide No. index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 No. REACH: 01-2119457892-27-XXXX	<2	 C; R35	Skin Corr. 1A	H314
Sodium metasilicate No. index: - CAS: 10213-79-3 EC: 229-912-9 No. REACH: -	<3	 C; R34  Xi: R37	Skin Corr. 1B STOT SE 3	H314 H335

Full description of R and H phrases in section 16.

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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 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:

Skin contact: irritation, redness, pain.

Eye contact: strong irritation, may damage eyes.

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, food poisoning symptoms, abdominal pain, nausea, vomiting.

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

MATERIAL SAFETY DATA SHEET

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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 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: Preparation for pavings and stone floors.

SECTION 8: Exposure controls/personal

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).

Exposure limits:

Name / type of substance	NDS	NDSch	NDSP
	mg/m ³		
Sodium hydroxide	0,5	1	-
2-(2-butoxyetoxy)ethanol	67	100	-
Ethanol	1900	-	-
2-propanol	900	1200	-

Product of mass reaction of ethanol and 2-propanol

DNEL, worker, long term exposure, skin, general effect: 343mg/kg

DNEL, worker, long term exposure, inhalation, local effect: 1900mg/m³

DNEL, worker, long term exposure, inhalation, general effect: 500mg/m³

DNEL, user, long term exposure, skin, general effect: 206mg/kg

DNEL, user, long term exposure, inhalation, general effect: 89mg/m³

DNEL, worker, long term exposure, inhalation, local effect: 950mg/m³

DNEL, user, long term exposure, ingestion, general effect: 26mg/m³

2-(2-butoxyetoxy)ethanol

DNEL, worker, long term exposure, skin: 20mg/kg

DNEL, worker, long term exposure, inhalation, local effect: 101,2mg/m³

DNEL, worker, long term exposure, inhalation: 67,50mg/m³

DNEL, user, long term exposure, skin: 10mg/kg

DNEL, user, long term exposure, inhalation: 34mg/m³

DNEL, worker, long term exposure, inhalation, general effect: 67,5mg/m³

DNEL, worker short term exposure, inhalation, local effect: 50,6mg/m³

DNEL, user long term exposure, ingestion: 1,25mg/m³

PNEC fresh water: 1mg/l

PNEC seawater: 0,1mg/l

PNEC fresh water residue: 4mg/kg

PNEC seawater residue: 0,4mg/kg

MATERIAL SAFETY DATA SHEET

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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

PNEC soil: 0,4mg/kg

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:

Wear protective clothing.

Air passages protection:

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	Clear liquid
Colour	Transparent
Odour	Odourless
Odour threshold value	Not specified
pH	13,5
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

MATERIAL SAFETY DATA SHEET

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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

Low explosivity threshold	Not specified
High explosivity threshold	Not specified
Vapour pressure	Not specified
Relative Density of vapours	Not specified
Density	1,0447 ± 0,005g/cm ³
Solubility in solvents	Complete in water
Partition coefficient n-octanol/water	Not specified
Auto ignition temperature	Not specified
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:

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

2-(2-butoxyetoxy)ethanol

LD50 (orally, rat): 3384mg/kg

LC50 (inhalation, rat): >3mg/l, 2h

LD50 (skin, rabbit): 2764mg/kg

Product of mass reaction of ethanol and 2-propanol

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

LC50 (inhalation, rat): >25000mg/m³

LD50 (skin, rabbit): 13900mg/kg

Alcohols, C9-11, branched and linear, etoxylated 5-20 TE

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

MATERIAL SAFETY DATA SHEET

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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

Sodium hydroxide:

LD50 (orally, rabbit): 500 mg/kg

LD50 (peritoneally, mouse): 40 mg/kg

LDL0 (orally, rat): 250 mg/kg

Sodium metasilicate

LD50 (orally, rat): 1152 - 13490 mg/kg

LC50 (inhalation, rat): >2,06 g/m³

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

b) irritation effect: causes serious eye damage. Irritant in contact with skin

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:

Skin contact: irritation, redness, pain.

Eye contact: strong burns, may seriously damage eyes.

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, nausea, vomiting, food poisoning symptoms.

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:

2-(2-butoxyethoxy)ethanol

Fishes: LC50: 1300mg/l/96h (Lepomis macrochirus)

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

Algae: EC50: >100mg/l/72h (Scenedesmus subspicatus)

Active residue reaction:

EC10 (30min.): >1995mg/l

Product of mass reaction of ethanol and 2-propanol

Fishes: LC50: 9640mg/l/96h (OECD 203 or equal method)

Invertebrates: EC50: 5012mg/l/48h (Daphnia magna, method ASTM E729-80);

NOEC >10mg/l/21dni

Algae: EC50: 675mg/l/4 days (OECD 201 or equal method)

Bacteria: TT (16h): 1050mg/l (method DIN 38412 part 8 or equal method)

Microbiological activity detention: 1050mg/l/16h (method DIN 38412 part 8 or equal method, Pseudomonas Zellvermehrungshemm)

Sodium metasilicate

Fishes: LC50: 210 mg/l/96h (Brachydanio rerio)

Invertebrates: EC50: 1700 mg/l/48h (Daphnia magna)

Algae: EC50: 207mg/l/72h (Scenedesmus subspicatus)

12.2 Persistence and degradability (biodegradability abilities):

2-(2-butoxyethoxy)ethanol: easily biodegradable

Product of mass reaction of ethanol and 2-propanol: easily biodegradable

Alcohols, C9-11, branched and linear, etoxylated 5-20 TE: 76% in 28 days – easily biodegradable.

MATERIAL SAFETY DATA SHEET

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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

Sodium hydroxide: easily decomposed in water and air (becomes carbonates).

Sodium metasilicate: becomes hydrolysed

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

12.3 Bioaccumulative ability:

Product of mass reaction of ethanolu and 2-propanol: log: 0,05

Sodium metasilicate: low potential of bioaccumulativity

12.4 Mobility in soil:

Product of mass reaction of ethanol and 2-propanol: soluble in water

Sodium hydroxide: easily becomes in sodium carbonate causing limited abilities to spread in the environment.

12.5 Test result of PBT and vPvB assessment:

No data.

12.6 Other adverse effects:

Sodium hydroxide: may pose a threat to biological water treatment facilities (increase of pH value).

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).

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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

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:**

- R11** – highly flammable
- R22** – harmful if swallowed
- R36** – irritating to eyes
- R34** – causes burns
- R35** – causes serious burns
- R37** – irritating to respiratory system
- R41** – risk of serious eye damage
- R67** – vapours may cause dizziness and sleepiness
- H225** – highly flammable liquid and vapours
- H302** – harmful if swallowed
- H314** – causes serious skin burns and eye damage
- H315** – irritating to skin
- H318** – causes serious eye damage
- H335** – may cause burns in respiratory system
- H336** – may cause sleepiness or dizziness

Abbreviation, acronyms and symbols description:

- F** – highly flammable
- C** – corrosive
- Xn** – harmful
- Xi** – irritant
- Flam. Liq. 2** – liquid and flammable substance cat. 2
- Acute Tox. 4** – acute toxicity cat. 4
- Skin Corr. 1A** – corrosive to skin cat.1A
- Skin Corr. 1B** – corrosive to skin cat.1B

MATERIAL SAFETY DATA SHEET

MEDICLEAN MG 131 Bruk Clean

Date of issue: 15.06.2014

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

Skin Irrit. 2 – irritant to skin cat.2

Eye Irrit. 2 – irritant to eyes cat.2

Eye Dam. 1 – serious eye damage cat. 1

STOT SE 3 – toxic to organs – singular exposure STOT cat. 3

NDS – threshold limit value

NDSch – temporary threshold limit value

NDSP – ceiling threshold limit value

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 MG 131 Bruk Clean**

- Date of issue: 15.06.2014
- Version ANG: 1.0

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 MG 131 Bruk 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.**