

MEDICLEAN 340 Granule for pipe

Date of issue 23.09.2011

Update: 16.12.2014

Version ENG: 2.0

*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 MC 340 Granule for pipe**1.2 Relevant identified uses of the mixture and uses advised against:**

Recommended use: Granule for pipe is used for clearing drain siphons in sinks and tubs. The product dissolves all fat, kitchen waste, hair, wool, paper and other pollution. Do not use to the installation of aluminum

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.pl

1.4 Emergency telephone number: 81 535 22 22 at time: 8.00 – 16.00
112 (general emergency number), 998 (fire brigade), 999 (ambulance service)

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

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

C; R35

Classification according to 1272/2008

Skin Corr. 1A; H314

Risk to human health

Causes severe skin burns and eye damage

Risk to environment

The mixture does not contain components classified as dangerous to the environment.

Physical/chemical

No.

2.2 Label elements:

Pictograms:



Password warning: Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

Phrases indicating conditions of safe use:

P280 – Wear protective gloves/protective clothing/eye protection/face protection

P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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P405 – Store locked up.

Contains: sodium hydroxide (CAS: 1310-73-2)

2.3 Other hazards:


No information about substances specified in PBT or vPvB in accordance with Annex XIII of REACH.

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 hydroxide CAS: 1310-73-2 EC: 215-185-5 Index number: 011-002-00-6 REACH number: the substance is subject to the transient period regulations	65 - 75	 C; R35	Skin Corr. 1A	H314

Full text of R and H phrases In Section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Skin contact:

Remove contaminated clothing, wash affected skin with soap and water, rinse thoroughly with water.

In the event of an irritation, erythema, contact your doctor.

Eye contact:

Rinse eyes for several minutes (approx. 15) with plenty of water, holding the eyelids apart. Avoid strong stream, due to the risk of cornea damage, immediately consult a doctor.

Inhalation:

In case of dizziness and nausea move to fresh air. In the absence of rapid improvement, seek medical advice

Ingestion:

Do not induce vomiting. Rinse mouth with water. Immediately seek medical advice.

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

The respiratory system: Inhalation of concentrated vapors causes irritation of the mucous membranes of the nose, throat and downstream sections of the respiratory system.

The digestive tract: Ingestion causes chemical irritation of the mucous membranes of the gastrointestinal tract with the risk of perforation, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, malaise, headaches and dizziness - symptoms of food poisoning.

Skin contact: Causes burns.

Eye contact: Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Decision on the rescue procedure is taken by a doctor following thorough examination of victim's condition

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Alcohol-resistant foam or dry chemicals (A, B, C), carbon dioxide (fire-extinguisher), sand or earth, water spray. Use fire extinguishing methods suitable to surrounding conditions

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Not suitable: A strong stream of water.

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. Do not allow to enter extinguishing water into surface water, ground water and drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: inform the appropriate service. Remove from the hazardous area people not involved in liquidation of failure.

For emergency personnel: Ensure adequate ventilation, use personal protective equipment. Do not breathe vapors.

6.2 Environmental precautions:

Prevent from spreading or entering into drains and water courses, inform local authorities in case of inability to provide protection.

6.3 Methods and material for containment and cleaning up:

Prevent the spread of and remove by gathering mechanical. Contaminated material placed in properly labeled containers. The contaminated material placed in properly labeled containers made of PE for disposal in accordance with applicable regulations. Contaminated surface thoroughly rinse with water. The solution neutralize approx. 10% hydrochloric acid. The wastewater after neutralization to pH = 7 can be directed to drain.

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 contact with eyes. Avoid prolonged or repeated contact with skin. Avoid spilling or splashing. Avoid breathing vapors. Avoid sources of ignition, heat, hot surfaces and open flames. Work in accordance with safety and hygiene: Do not eat, drink and smoke in the workplace, 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 (Recommended storage temperature of , 8°C to 25°C), dry, well-ventilated properly labeled and tightly closed original container. Avoid direct sunlight and heat sources, hot surfaces and open flames. Store away from strong acids and ammonium salts and metals (zinc, tin, aluminum, brass, copper). Protect from moisture and water intrusion. Store for a period of 12 months from the date of production.

7.3 Specific end uses: Granule for pipe is used for clearing drain siphons in sinks and tubs. The product dissolves all fat, kitchen waste, hair, wool, paper and other pollution. Do not use to the installation of aluminum.

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 of 6 June 2014 on the maximum permissible concentration and intensity of harmful factors in the work environment (Journal of Laws, item. 817).

Exposure limits:

Substance	NDS	NDSCh	NDSP
	mg/m3		

MEDICLEAN 340 Granule for pipe

Date of issue 23.09.2011

Update: 16.12.2014

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Sodium hydroxide	0,5	1	-
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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 gloves resistant to chemicals made of nitrile rubber, in accordance 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 work wear (according to EN 344) - wash regularly.

Respiratory protection:

Avoid breath vapors.

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

Appearance	Granule
Colour	White
Odour	Not specified
Odour threshold	Not specified
pH (solution 1g/dm ³) in 20°C	Approx. 12
Melting point/range	Not specified
Boiling point/range	1388°C – 390°C
Flash point	Not specified
Lower flammability limit	Not specified
The upper limit of flambility	Not specified
Ignition temperature	Not specified
Evaporation rate	Not specified
Flammability (solid,gas)	Not specified

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Lower explosive limit	Not specified
Higher explosive limit	Not specified
Vapor pressure in 20°C / 618°C/ 739°C	0 / 0.13 / 1.333 hPa
Realtive vapor density	Not specified
Density at 20°C	2,12 – 2,16 g/cm ³
Solubility in solvents	Solubility in water - 87.1 g / 100cm ³
Coefficient n-octanol/water	Not specified
Auto-ignition temperature	Not specified
Decomposition temeperature	Not specified
Dynamic viscosity at 23°C	Not specified
Kinematic viscosity at 20°C	Not specified
Explosive properties	Not specified
Oxidizing properties	Not specified

9.2 Other information: Specific heat at temp.20°C 3.24 J / kg. Heat of vaporization in temp.1390°C: 3610 J / g. The heat melting temp.319°C: approx.159 J / g (38cal / g). The heat of dissolution in temp.18°C: approx. - 1.1 kJ / g

SECTION 10: Stability and reactivity

10.1 Reactivity:

Very reactive. It is corrosive to metals, particularly in the presence of moisture. Well dissolves in water, to form highly corrosive solutions.

10.2 Chemical stability :

Strongly hygroscopic.

10.3 Possibility of hazardous reactions:

Reacts violently with acids, to form salts (heat is released). Reacts with ammonium salts. It is a potent corrosive on light metals (tin, zinc, aluminum, brass) - the ability to create hydrogen; the danger of explosion. Dangerously reacts with aluminum, zinc, zirconium, diborane, trifluoride chloride, phosphorus pentoxide, phosphorus acid, chlorosulfonic acid, hydrochloric acid, hydrofluoric acid, nitric acid, sulfuric acid, oleum, acetaldehyde, acrolein, acrylonitrile, cyanohydrin methyl tetrahydrofuran, nitromethane, nitroethane, nitropropane, trinitro etanolem, trichloroethanol, trichloronitromethane.

10.4 Conditions to avoid:

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

10.5 Incompatible materials :

Strong acids, ammonium salts, metals: aluminum, zinc, tin, copper, brass and substances listed in 10.3.

10.6 Hazardous decomposition products:

No data

SEKCJA 11: Toxicological information

11.1 Information on toxicological effects:

a) acute toxicity: not recognized

Sodium hydroxide

Orally: LD50 rabbit 500mg/kg

- Intraperitoneally: LD50 mouse 40 mg/kg
b) irritant effect: no
c) corrosion: Causes severe skin burns and eye damage
d) allergic: no
e) repeated dose toxicity: no
f) carcinogenicity: no
g) mutagenic: no
h) reproductive toxicity: no

Information on likely routes of exposure:

The respiratory system: Inhalation of concentrated vapors causes irritation of the mucous membranes of the nose, throat and downstream sections of the respiratory system.

The digestive tract: Ingestion causes chemical irritation of the mucous membranes of the gastrointestinal tract with the risk of perforation, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, malaise, headaches and dizziness - symptoms of food poisoning.

Skin contact: Causes burns.

Eye contact: Causes serious eye damage.

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

No data.

Interaction effect:

No data.

SECTION 12: Ecological information

The mixture does not contain components classified as dangerous to the environment, but due to the properties of sodium hydroxide is harmful to fish and plankton. Causes pitting of fish skin and gills.

Do not allow product to reach ground water, drains and watercourses.

12.1 Toxicity:

Potassium hydroxide

Toxicity to fish: LC50: 189 mg / l

Fish EC 0 <20 mg / l

Aquatic organisms LC50: 10 - 100 mg / l (96h)

12.2 Persistence and degradability:

No data

12.3 Bioaccumulation ability:

No data.

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:**

Disposal of waste and disposable packaging should be addressed by specialized companies, manner of waste disposal should be agreed with the competent department of environmental protection. 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. The Minister of Environment of 27 September 2001 on waste catalog (Journal of Laws No. 112, item. 1206). Council Directive No. 75/442 / EEC on waste. Council Directive No. 91/689 / EEC on hazardous waste by Commission Decision 2000/532 / EC of 3 May 2000 stating the list of wastes, OJ No. L 226/3 of 6 September 2000, along with changing decisions.

SECTION 14: Transport information

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*Material Safety Data Sheet according to Regulation WE 1907/2006 from 18.12.2006 – REACH and 453/2010 from 20.05.2010r.***14.1 Numer UN (numer ONZ):** 1823.**14.2.Prawidłowa nazwa przewozowa UN:** SODIUM HYDROXIDE SOLID**14.3 Klasa(-y) zagrożenia w transporcie:** 8**14.4 Grupa pakowania:** II**14.5 Zagrożenia dla środowiska:** no**14.6 Szczególne środki ostrożności dla użytkowników:** no information**14.7 Transport luzem zgodnie z załącznikiem II do konwencji MARPOL 73/78 i kodeksem IBC:** no information**SECTION 15: Regulatory information****15.1 Laws concerning the safety, health and environment specific for the substance or mixture.**

1. The ordinance 1907/2006 (EC) of the European Parliament and Council, dated in 18 December 2006, on registration, evaluation, permissions and restrictions for chemicals (REACH), as later amended..
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 their mixtures (Journal of Laws No. 63, item. 322, as later amended.)
4. European Parliament and Council Regulation of 16 December 2008 no. 1272/2008 (CLP) as later amended..
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 item. 445, as later amended.)
6. Ministry of Health Regulation of 10 August 2012 on classification types and criteria of chemical substances and their mixtures (Journal of Laws 2012 item. 1018)
7. Minister of Health Regulation of 10 October 2013. That changed regulation on the category of dangerous substances and mixtures whose packaging is provided with a closure against opening by children and tactile warning of danger (Journal of Laws 2013 No. 0 item. 1225)
8. Law of 14 December 2012 on waste list (Journal of Laws 2013 No. 0, item.21).
9. The Law of 13 June 2013 on packaging and packaging waste (Journal of Laws 2013, item. 888).
10. Regulation of the Minister of Environment of 27 September 2001 on the catalog of waste (Journal of Laws No. 112, item. 1206).
11. Council Directive No. 75/442 / EEC on waste, Council Directive No. 91/689 / EEC on hazardous waste by Commission Decision 2000/532 / EC of 3 May 2000 stating the list of wastes, OJ No. L 226/3 of 6 September 2000, along with changing decisions.
12. The Law of 19 August 2011. on the transport of dangerous goods (Journal of Laws No. 227, item. 1367)
13. Government Statement of 23 March 2011. On the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957. (Journal of Laws No. 110 , item. 641).
14. Regulation of the Minister of Labour and Social Policy of 29 November 2002 on maximum permissible concentration and intensity of harmful factors in the work environment (Journal of Laws No. 217, item. 1833, as amended.).
15. Regulation of the Minister of Health of 30 December 2004 on health and safety related to occurrence of chemical agents at work (Journal of Laws of 2005. No. 11, item. 86, as later amended.)
16. Regulation of the Minister of the Environment of 9 December 2003 on substances posing a particular threat to the environment (Journal of Laws No. 217, item.2141).

15.2 Chemical safety assessment:

No chemical safety assessment for the substance in the mixture and to the mixture.

SECTION 16: Other information**Phrases R and H:****R35** – Causes severe burns**H314** – Causes severe skin burns and eye damage

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*Material Safety Data Sheet according to Regulation WE 1907/2006 from 18.12.2006 – REACH and 453/2010 from 20.05.2010r.***Abbreviation, acronyms and symbols description:**

C - corrosive

Skin Corr.1A - skin corrosion cat. 1A

NDS – Exposure Limit

NDSP – Acceptable Ceiling

NDSCh – Maximum Allowable Momentary

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

MATERIAL SAFETY DATA SHEET – **MEDICLEAN MC 340 Granule for pipe**

- Issuing date: 23.09.2011
- Update 2.0 of 16.12.2014

SOURCE MATERIALS

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.

SDS manufacturer mixtures - MEDICLEAN MC 340 Granule for pipe

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 use of the product **MEDICLEAN MC 340 Granule for pipe**. Since the conditions of storage, transportation and use are beyond our control, we cannot provide a guarantee in the legal sense. 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 Ltd.**

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