According to 1907/2006/EC (REACH), 453/2010/EC

Brum Brum Płyn do mycia silników



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier: 1.1 **Brum Brum**

Płyn do mycia silników

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

Relevant uses: Cleaner

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet: MD Trade Zofia i Roman Macioszek Sp. J.

ul. Palucka 27-33

62-200 Gniezno - Wielkopolskie - Polska

Phone.: +48 616675333 -Fax: +48 616394536 mdtrade@mdtrade.pl

Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) nº1907/2006 (REACH regulation).

Xi: R36/38 - Irritating to eyes and skin

CLP Regulation (EC) nº 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.

Eye Dam. 1: Serious eye damage, Category 1 Met. Corr. 1: Corrosive to metals, Category 1

Skin Irrit. 2: Skin irritation, Category 2

2.2 Label elements:

CLP Regulation (EC) no 1272/2008:

Dangei



Hazard statements:

Eye Dam. 1: H318 - Causes serious eye damage Met. Corr. 1: H290 - May be corrosive to metals Skin Irrit. 2: H315 - Causes skin irritation

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

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

P302+P352: IF ON SKIN: Wash with plenty of water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

P406: Store in a container resistant to corrosion with a resistant inner lining

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

Supplementary information:

Non-applicable

Substances that contribute to the classification

Decyl D-glucoside; Alkylglucoside C8

2.3 Other hazards:

Non-applicable

Brum Brum Płyn do mycia silników



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Mixture composed of chemical products

Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

Identification		Chemical name/Classification	Concentration
CAS: 54549-25-6	Decyl D-glucoside	Self-classified	
EC: 259-218-1 Index: Non-applicable	Directive 67/548/EC	C: R35; Xn: R65	1 - <2,5 %
REACH: Non-applicable	Regulation 1272/2008	Asp. Tox. 1: H304; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger	
CAS: Non-applicable	Alkylglucoside C8	ATP CLP00	
EC: 414-420-0 Index: 614-028-00-1	Directive 67/548/EC	Xi: R41	1 - <2,5 %
REACH: 01-2119987144-31-XXXX	Regulation 1272/2008	Eye Dam. 1: H318 - Danger	
	Sodium hydroxide	Self-classified	
EC: 215-185-5 Index: 011-002-00-6	Directive 67/548/EC	C: R35	<1 %
REACH: 01-2119457892-27-XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1A: H314 - Danger	

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:

This product does not contain substances classified as dangerous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive subproducts are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Brum Brum Płyn do mycia silników



SECTION 5: FIREFIGHTING MEASURES (continue)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflamation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

This product is not classified as dangerous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximun Temp.: 30 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

Brum Brum Płyn do mycia silników



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

There are no environmental limits for the substances contained in the product

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m³

DNEL (Population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m³

PNEC:

Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding ""CE marking"" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more infomation see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves	CATI	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	Replace the gloves at any sign of deterioration.

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against liquid splash	CATII	EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI	EN ISO 13688:2013	For professional use only.
	Anti-slip work shoes	CAT II	EN ISO 20347:2012 EN ISO 20344:2011	None

Brum Brum Płyn do mycia silników



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
•	ANSI Z358-1 ISO 3864-1:2002	⊢	DIN 12 899 ISO 3864-1:2002
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid

Appearance: Not available
Color: Pink
Odor: Not available

Volatility:

Boiling point at atmospheric pressure: 102 °C Vapour pressure at 20 °C: 2341 Pa

Vapour pressure at 50 °C: 12333 Pa (12 kPa) Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1040 kg/m³ Relative density at 20 °C: 1,04

Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * Non-applicable * Concentration: pH: Non-applicable * Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable * Non-applicable * Solubility property: Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: Non Flammable (>60 °C)

Autoignition temperature: 324 °C

Lower flammability limit: Non-applicable *
Upper flammability limit: Non-applicable *

9.2 Other information:

Surface tension at 20 °C: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

According to 1907/2006/EC (REACH), 453/2010/EC

Brum Brum Płyn do mycia silników



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	Not applicable	Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A.- Ingestion:
- B- Inhalation:
- C- Contact with the skin and the eyes:
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
- E- Sensitizing effects:
- F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

According to 1907/2006/EC (REACH), 453/2010/EC

Brum Brum Płyn do mycia silników



SECTION 11: TOXICOLOGICAL INFORMATION (continue)

H- Aspiration hazard:

Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acut	Genus	
Alkylglucoside C8	LD50 oral	5100 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	2380 mg/kg	Rat
EC: 414-420-0	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the product itself is not available

12.1 Toxicity:

Identification		Acute toxicity	Specie	Genus
Alkylglucoside C8	LC50	310 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: Non-applicable	EC50	Non-applicable		
EC: 414-420-0	EC50	Non-applicable		
Sodium hydroxide	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
CAS: 1310-73-2		33 mg/L	Crangon crangon	Crustacean
EC: 215-185-5	EC50	Non-applicable		

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Directive 2008/98/EC)
20 01 29*	Detergents containing dangerous substances	Dangerous

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) $n^{o}1907/2006$ (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

According to 1907/2006/EC (REACH), 453/2010/EC

Brum Brum Płyn do mycia silników



SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:



14.1 UN number: UN1760

14.2 UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Decyl D-glucoside)

14.3 Transport hazard class(es): 8

 Labels: 8

 14.4 Packing group: III
 14.5 Dangerous for the environment: No

14.6 Special precautions for user

Special regulations: 274
Tunnel restriction code: E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Transport in bulk according Non-applicable

to Annex II of MARPOL 73/78 and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 36-12:

14.1 UN number: UN1760

14.2 UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Decyl D-glucoside)

14.3 Transport hazard class(es): 8
Labels: 8

14.4 Packing group: III

14.5 Dangerous for the environment:

14.6 Special precautions for user

Special regulations: 223, 274, 944
EmS Codes: F-A, S-B
Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Transport in bulk according Non-applicable to Annex II of MARPOL

73/78 and the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2014:



14.1 UN number: UN1760

14.2 UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Decyl D-glucoside)

14.3 Transport hazard class(es): 8
Labels: 8
14.4 Packing group: III

14.4 Packing group: III

14.5 Dangerous for the environment:

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Transport in bulk according** Non-applicable

to Annex II of MARPOL 73/78 and the IBC Code:

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Brum Brum Płyn do mycia silników



SECTION 15: REGULATORY INFORMATION (continue)

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Regulation (EC) nº648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC) nº648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Contents labelled:

Component	Concentration interval
Non-ionic surfactants	% (w/w) < 5
Phosphonates	% (w/w) < 5

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Non-applicable

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable

Text of R-phrases considered in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

Directive 67/548/EC and Directive 1999/45/EC:

R35: Causes severe burns

R41: Risk of serious damage to eyes

R65: Harmful: may cause lung damage if swallowed

CLP Regulation (EC) no 1272/2008:

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Eye Dam. 1: H318 - Causes serious eye damage

Met. Corr. 1: H290 - May be corrosive to metals

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Brum Brum Płyn do mycia silników



SECTION 16: OTHER INFORMATION (continue)

http://esis.jrc.ec.europa.eu http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- -IMDG: International maritime dangerous goods code
- -IATA: International Air Transport Association
- -ICAO: International Civil Aviation Organisation
- -COD: Chemical Oxygen Demand
- -BOD5: 5-day biochemical oxygen demand
- -BCF: Bioconcentration factor
- -LD50: Lethal Dose 50
- -CL50: Lethal Concentration 50
- -EC50: Effective concentration 50
- -Log-POW: Octanol—water partition coefficient -Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.