

SAFETY DATA SHEET

Prepared according to Regulation (EU) No 2015/830 of the Commission dated 28 May 2015

Enzyme Microfiber Wash

Date of issue: 02.12.2017

Last updated:

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SECTION 1: Substance/mixture identification and company identification

1.1. Product ID **Enzyme Microfiber Wash**

1.2. Important identified uses for the substance or compound and uses advised against

Identified uses: **Microfiber cleaning detergent**

Uses advised against: unspecified

1.3. Data sheet supplier information:

Producer:

LIPORT Wojciech Liszega

Krasickiego 2a/73

81-385 Gdynia

Production facility:

Leśna 8

83-010 Straszyn

1.4. Emergency phone number

112 (general emergency number), 998 (fire department), 999 (emergency medical service)

SECTION 2: Hazard identification

2.1. Substance or mixture classification

Classification in accordance with Regulation 1272/2008 (CLP)

Skin Irrit. 2

H315 Causes skin irritation.

Eye Dam. 1

H318 Causes serious eye damage.

2.2 Marking elements:

Pictograms:



Signal word: DANGER

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

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

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

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Contains:

Alcohols, C10-16 ethoxylated; Fatty alcohol C12-14, ethoxylated alkyl sulfates, sodium salts; D-glucopyranose, oligomers, decyl octyl glycosides; D-glucopyranose, oligomers, C10-16-alkyl glycosides

The content of detergents in accordance with Regulation 648/2004/EC

Contains: nonionic surfactants 5% or more but less than 15%; anionic surfactants 15% or more but less than 30%; fragrance

2.3 Other hazards:

No information regarding the meeting of PBT or vPvB criteria in accordance with appendix XIII of the REACH regulation. No appropriate research has been carried out on this product.

SECTION 3: Composition/component information**3.1. Substances**

Not applicable

3.2. Mixtures

Dangerous components:

Product ID	Quantity [%]	CLP classification	
		Hazard classification	Hazard statements codes
alcohols, C10-16 ethoxylated CAS number: 68002-97-1 EC number: ----- REACH registration number: -----	10 – 12	Eye Dam. 1 Acute Tox. 2 Aquatic Chronic 3	H318 H302 H412
fatty alcohol C12-14, ethoxylated alkyl sulfates, sodium salts CAS number: 68891-38-3 EC number: 500-234-8 REACH registration number: 01-2119488639-16-XXXX	6 – 8	Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 3	H315 H318 H412
D-glucopyranose, oligomers, decyl octyl glycosides CAS number: 68515-73-1 EC number: 500-220-1 REACH registration number: 01-2119488530-36-XXXX	2 – 3	Eye Dam. 1	H318
D-glucopyranose, oligomers, C10-16-alkyl glycosides CAS number: 110615-47-9 EC number: 600-975-8 REACH registration number: 01-2119489418-23-XXXX	2 – 3	Eye Dam. 1	H318

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Fatty acids, coco, potassium salts

CAS number: 61789-30-8

EC number: 263-049-9

REACH registration number: -

4 - 5

Skin Irrit. 2

Eye Irrit. 2

H315

H319

The full meaning of hazard statements has been given in section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Routes of exposure:

Inhalation, ingestion, skin and eye contact.

Inhalation:

Take the affected person out into fresh air. Place in a comfortable position. Ensure peace and protect against heat loss.

Provide medical assistance if necessary.

Consumption:

Rinse mouth with water, drink 2-3 cups of water, consult a doctor. Do not induce vomiting. If unconscious do not give anything by mouth.

Transport the affected person to hospital if necessary. Ensure peace, place in a lying position and protect against heat loss.

Eye contact:

Remove any contact lenses if possible.

Flush with plenty of lukewarm water for 10–15 minutes with eyelids wide open. Place the upper eyelid on the lower eyelid from time to time. Cover the eyes with a compress.

Provide ophthalmologist assistance if necessary.

Skin contact:

Take off the contaminated clothes and shoes.

Wash the contaminated skin with plenty of water and then with water containing mild soap.

Seek medical attention if skin irritation persists.

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

No further data available.

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

The course of action is decided on by a medical doctor, based on an examination of the person affected.

SECTION 5: Fire emergency procedure

5.1. Extinguishing agents:

Suitable extinguishing agents: alcohol-resistant foam or dry extinguishing agents, carbon dioxide extinguishers, sand, soil, water aerosol. Choose extinguishing agents based on the conditions of the environment.

Unsuitable extinguishing agents: High volume water jet.

5.2. Special threats related to the substance or mixture

In case of fire, high temperatures cause a release of hazardous decomposition products that contain carbon monoxides.

5.3. Information for the fire department

Spray the containers located in the fire area with water, remove from the hazardous area if possible. In case of a fire in an enclosed environment, use protective clothing and compressed air breathing apparatus. Do not allow the extinguishing agents into ground waters, surface waters, or sewage systems.

SECTION 6: Measures regarding accidental release into the environment

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6.1. Individual safety measures, protective equipment and emergency procedures

For persons other than emergency personnel: notify the appropriate authorities of the emergency. Remove any persons not participating in the containment procedures from the contamination area.
For emergency personnel: Ensure proper ventilation, use individual safety measures.

6.2. Environmental safety measures

Prevent the contamination from spreading into sewage systems and water reservoirs.

6.3. Methods of removing and preventing the spread of contamination:

Prevent the contamination from spreading and attempt removal using absorptive materials (sand, diatomite, universal absorbent), place the contaminated materials in properly marked containers for subsequent utilization in accordance with the mandatory provisions of the law.

6.4. References to other sections

Product waste disposal – see section 13 of this data sheet.
Individual protective measures – see section 8 of this data sheet.

SECTION 7: Storage and use of substances and mixtures

7.1. Precautions for safe handling

Recommendations for handling the mixture

Avoid direct contact with the mixture.
Avoid inhalation.
Prevent from spreading into sewage systems.

Apply general provisions of the industrial work hygiene

Do not eat, drink or smoke when using the product.
Replace the contaminated clothing.
Wash hands thoroughly after handling.
Wash contaminated clothing before reusing.
Wash hands and face before breaks at work.

7.2. Safe storage regulations, including any mutual incompatibility information

Store in a well-ventilated area.
Keep container tightly closed.
Store in a cool place.
Protect from sunlight and sources of heat.
Do not store with food or animal feeding stuffs.
Always use containers made of materials analogous to the original ones.
Open containers should be handled very carefully so as to prevent spillage.
Do not handle until all safety precautions have been read and understood.

7.3. Specific end use(s)

See section 1.2 of this data sheet.

SECTION 8: Exposure controls/individual protective measures

8.1. Control parameters

The national highest acceptable concentration values in the work environment

in accordance with the Notice of the Minister of Labor and Social Policy of 6 June 2014 on the highest acceptable concentration and intensity of factors detrimental to health in the work environment (Dz.U. (Journal of Laws) 2014, item 817).

NAME OF THE SUBSTANCE	ID	NDS (mg/m3)	NDSch (mg/m ³)	NDSP (mg/m3)
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8.2. Exposure controls

Appropriate technical control measures: Storage rooms and work stations should be adequately ventilated to keep vapor concentration below the limit value.

Appropriate technical control measures

Storage rooms and work stations should be adequately ventilated.

Individual safety measures



Face and eye protection

Use tight-fitting safety glasses or faceshield screens according to EN 166.

Skin protection



Hand protection

Wear protective gloves according to EN 374.

Recommended material: nitrile rubber

When selecting glove materials, consider their breakthrough time, rates of diffusion and degradation.

The protective gloves should be regularly changed or replaced immediately if damaged (torn, perforated), or when first signs of wear and changes in their appearance occur (color, flexibility, shape).

A protective cream should be applied to all uncovered parts of the body.

Body protection

The protective suit against chemicals.

The selection of individual protection measures must be made taking into account the concentration and quantity of the hazardous substance occurring at the work environment.

Respiratory tract protection

Not necessary if ventilation is adequate.

Environment exposure controls

Do not discharge into sewage systems or ground waters.

General safety and hygiene recommendations

Follow good hygiene practice.

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical property information

Appearance:	Under normal conditions: liquid
Color:	Distinctive
Odor:	Distinctive
Odor threshold:	No data
pH:	No data
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	No data
Flammability (solid, gas):	No data
Upper/lower flammability or explosive limits:	No data

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Vapor pressure:	No data
Vapor density:	No data
Relative density:	No data
Solubility:	No data
Partition coefficient: n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable

9.2. Additional information

No additional analysis results.

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is chemically stable under normal conditions.

10.2. Chemical stability

The product is stable when properly used, stored and transported.

10.3. Potential for hazardous reactions

No data

10.4. Conditions to avoid

Avoid high temperatures, direct sunlight, hot surfaces and open fire. Protect against frost.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Do not occur when used in accordance with its purpose.

SECTION 11: Toxicological information

11.1. Information regarding toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Alcohols C10-16, ethoxylated

LD50 (oral, rat) >1000 mg/kg

LD50 (dermal, rat) >3870–8000 mg/kg

Fatty alcohol C12-14, ethoxylated, alkyl sulfates, sodium salts

LD50 (oral, male female rat) >2000 mg/kg

LD50 (dermal, male and female rat) >2000 mg/kg

Fatty acids, coco, potassium salts

LD50 (oral, male female rat) >10000mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye injury/irritation

Causes serious eye damage.

Allergenic influence on respiratory tract or skin

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Based on available data, the classification criteria are not met.

Mutagenic influence on reproductive cells

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Harmful influence on reproductive organs

Based on available data, the classification criteria are not met.

Toxic influence on target organs – single exposure

Based on available data, the classification criteria are not met.

Toxic influence on target organs – repeated exposure

Based on available data, the classification criteria are not met.

Hazard caused by aspiration

Based on available data, the classification criteria are not met.

SECTION 12: Environmental information

12.1. Toxicity

The product is not classified as hazardous to the environment.

Alcohols C10-16, ethoxylated

Fish (Poecilia reticulata) LC50 6.5 mg/l, 96 h

Invertebrates (Daphnia) EC50 2.32 mg/l, 48 h

Algae (Desmodesmus subspicatus) EC50 2.70 mg/l, 72 h

Fish (Pimephales promelas) EC10 0.21 mg/l

Invertebrates (Daphnia magna) EC10 0.36 mg/l

Fatty alcohol C12-14, ethoxylated, alkyl sulfates, sodium salts

Algae (Desmodesmus subspicatus) EC50 >10–100 mg/l/72 h

Invertebrates (Daphnia magna) EC50 >1–10 mg/l/48 h NOEC 0>01, -1.0 mg/l/21 d

Fish (Brachydanio rerio) > 1–10 mg/l; NOEC 1.2 mg/l

Bacteria (Pseudomonas putida) EC10> 10000 mg/l

Fatty acids, coco, potassium salts

Algae EC50 >10 mg/l/72 h

12.2. Durability and dissolution potential

No data

12.3. Bioaccumulation capacity

No data

12.4. Soil mobility

No data

12.5. Results of PBT and vPvB properties evaluation

No data

12.6. Other harmful effects

No data

SECTION 13: Waste disposal

13.1. Waste disposal methods

Empty containers should be transported to an authorized company in order to be reprocessed or recycled.

Do not store with municipal waste.

Do not discharge into sewage systems, surface waters or wastewater.

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Waste code

Act of 14 December 2012 on waste (Dz.U. (Journal of Laws) 2013, item 21).

Regulation of the Minister of Environment of 9 September 2014 on the waste catalogue (Dz.U. (Journal of Laws) 2014, item 1923).

The waste code must be assigned individually at the location where the waste is produced, depending on the industry in which it is used.

SECTION 14: Transport information

	ADR/RID	IMGD	IATA
14.1. UN number	---	---	---
14.2. UN proper shipping name	---	---	---
14.3. Transport hazard class(es)	---	---	---
Warning sticker No.	---	---	---
14.4. Packing group	---	---	---
14.5. Threat to the environment	---	---	---
14.6. Special precautions for users		Not applicable	
14.7. Bulk transport in accordance with the MARPOL convention appendix II and the IBC code		Not applicable	

SECTION 15: Legal information

15.1. Provisions of the law regarding safety and protection of the environment in relation to the substance or mixture

This safety data sheet has been drawn up based on the following legal acts:

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. [ATP1, ATP2, ATP3, ATP4, ATP5, ATP6]
3. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) as corrected (replaces Regulation EC No 453/2015)
4. Act of 25 February 2011 on the chemical substances and their mixtures (Dz.U. (Journal of Laws) No 63, item 322 with amendments).
5. Regulation of the Minister of Labor and Social Policy of 6 June 2014 on maximum permissible concentration and intensity of agents harmful to health in the work environment (Dz.U. (Journal of Laws) item 817).
6. Act of 14 December 2012 on waste (Dz.U. (Journal of Laws) 2013, item 21).
7. Regulation of the Minister of Environment of 9 September 2014 on the waste catalogue (Dz.U. (Journal of Laws) 2014, item 1923).
8. Classification of dangerous goods according to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
9. Regulation of the Minister of Labor and Social Policy of 26 September 1997 on general provisions of occupational safety and health (Dz.U. (Journal of Laws) 2003 No 169, item 1650 with amendments).
10. Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Dz.U. (Journal of Laws) 2005 No 11, item 86 with amendments).

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Regulation of the Minister of Economy of 21 December 2005 on essential requirements for personal protection (Dz.U. (Journal of Laws) No 259, item 2173).

15.2. Chemical safety evaluation

Chemical safety evaluation is not required for the mixture.

SECTION 16: Additional information

List of hazard statements from section: 3

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

CAS (Chemical Abstracts Service)

EC number means one of the following:

- the number of the substance as given in the European Inventory of Existing Chemical Substances (EINECS),
- the number of the substance as given in the European List of Notified Chemical Substances (ELINCS)
- the number in the inventory of chemical substances listed in the European Commission's publication "No-longer polymers"

Description of used abbreviations, acronyms and symbols:

NDS - maximum allowable concentration of substances hazardous to health in work environment

NDSch - temporary maximum allowable concentration

NDSP - highest maximum allowable concentration

UN number - the four-digit number that identifies hazardous materials and articles (UN No)

ADR - the European Agreement concerning the International Carriage of Dangerous Goods by Road

RID - the Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG - International Maritime Dangerous Goods Code

IATA – International Air Transport Association

vPvB (substance) very Persistent very Bioaccumulable

PBT (substance) Persistent Bioaccumulative Toxic

LD50 Lethal dose required to kill half the members of a tested population

LC50 Lethal concentration required to kill half the members of a tested population

ECX Concentration at which X% inhibition of growth or growth rate is observed

NOEL The highest concentration with no effect observed

BOD Biochemical Oxygen Demand (BZT) pl: Biochemiczne Zapotrzebowanie Tlenu

COD Chemical Oxygen Demand (ChZT) pl: Chemiczne Zapotrzebowanie Tlenu

ThOD Theoretical Oxygen Demand - pl: Teoretyczne Zapotrzebowanie Tlenu

Additional information:

The product described in the safety data sheet should be kept and used in accordance with the good industrial practice and all legal regulations.

The information included in the safety data sheet, based on the current knowledge, is aimed at the description of the product from the point of view of the legal regulations concerning safety, health and environment protection. They should not be construed as a warranty for any specific properties.

The user is responsible for ensuring conditions of safe use of the product and is liable for the effects of the improper use of this product.