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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

LONG-LASTING, HIGH-GLOSS POLYMER COATING POLY HD E 335 –5 L
LONG-LASTING, HIGH-GLOSS POLYMER COATING POLY HD E 331 –1 L

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

Relevant identified uses: preparation intended for the protection and maintenance of plastic, terracotta, wooden and painted floors.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **ENZIM sp. z o.o.**
Address: Morska 58 C, 75-227 Koszalin, Poland
Telephone number: + 48 532-481-999
E-mail address for a competent person responsible for SDS: biuro@enzim.pl

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous to human life and health or to the environment.

2.2 Label elements

Hazard pictograms and signal words

None.

Substance name for labeling

None.

Hazard statements

None.

Precautionary statements

None.

Additional information

Contains: non-ionic surfactants, (< 5 %); perfumes [HEXYL CINNAMAL, CITRONELLOL, LINALOL, CUMARIN, BUTYLPHENYL METHYLPROPIONAL]; preservation agents [2-BROMO-2-NITROPROPANE-1,3-DIOL, METHYLCHLOROISOTHIAZOLINONE, METHYISOTHIAZOLINONE].

2.3 Other hazards

The mixture components do not meet the PBT or vPvB criteria according to Annex XIII to REACH.
The mixture components are not deemed as substances with endocrine-disrupting properties.


Section 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is mixture.

3.2 Mixtures

Identification numbers	International Chemical Identification	content [w/w%]	Classification according to Reg. 1272/2008 / EC [CLP]
No. CAS: 112-34-5 EC number: 203-961-6 Index number: 603-096-00-8 Registration number: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol ¹	2.5 - 5 %	Eye Irrit 2 H319

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1) Substance with the EU workplace exposure limit value.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothes, wash skin with water. Contact a doctor if disturbing symptoms occur.

Eye contact: wash out with plenty of water for approximately 15 min with open eyelids. Avoid strong water streams – risk of cornea damage. Protect the non-irritated eye and remove any contact lenses. Get in touch with a physician immediately if any irritation appears.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. If necessary, consult a doctor, show the packaging or label.

Inhalation: remove the injured person to fresh air, keep warm and at rest. If breathing is difficult, give oxygen. Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: possible redness, tearing, burning.

Skin contact: redness, burning.

4.3 Indication of any immediate medical attention and special treatment needed

The decision on how to proceed with the rescue is made by the doctor after a thorough assessment of the victim's condition.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, dry powder, CO₂, foam resistant to alcohol.

Unsuitable extinguishing media: water jet – risk of fire spread.

5.2 Special hazards arising from the substance or mixture

During combustion, harmful gases containing carbon oxides and other unidentified products of thermal decomposition may be formed. Avoid inhalation of combustion products - it may be hazardous to health.

5.3 Advice for firefighters

Protective equipment for firefighters: General protection measures typical in case of fire. Do not stay in the fire-endangered area without appropriate chemical-resistant clothing and self-contained breathing apparatus. Flammable liquid and vapor.

Protective actions for firefighters: The substance vapors are heavier than air and accumulate in the lower parts of the rooms. May form explosive mixtures with air. Pressure build-up in heated containers can explode. Cool endangered containers with water spray from a safe distance. Do not allow run-off of fire-fighting water to enter drains and water outlets. Collect used extinguishing media.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Limit the access of bystanders to the breakdown area until appropriate cleaning operations are completed. In case of major failures, isolate the endangered area. Use personal protection measures. Avoid eye contamination. Provide adequate ventilation.


For emergency responders: Use personal protective equipment.

6.2 Environmental precautions

In case of big unplanned releases of the product it is important to take steps in order to prevent it from spreading in the natural environment. Immediately notify the appropriate emergency services.

6.3 Methods and material for containment and cleaning up

Collect damaged packages mechanically - avoiding injury. Absorb spills with non-flammable materials that absorb liquids (e.g. sand, earth, vermiculite) and place in labeled containers. Treat the collected material as waste. Clean and ventilate the contaminated area well. Do not use sparking tools.

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6.4 Reference to other sections

Appropriate conduct with waste product – see section 13.
Personal protective equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Observe the general rules of safety and hygiene. Do not eat, drink or smoke while working. After each exposure, wash hands thoroughly with soap and water before breaks and after work. Avoid eyes, skin and clothing contamination. Use personal protection measures. Provide adequate ventilation. Do not inhale vapors. Eliminate the sources of ignition - do not use an open flame, do not smoke, do not use sparking tools and clothes made of fabrics susceptible to electrification. After opening, seal the container and store in an upright position to avoid leakage. Keep unused containers tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original, sealed packaging in a cool, dry and well-ventilated room. Keep away from food, animal feed and incompatible materials (see subsection 10.5). After opening, seal the container and store it in an upright position to avoid leakage. Keep away from heat, ignition and sparking tools. Protect against direct sunlight.

7.3 Specific end use(s)

Preparation intended for the protection and maintenance of plastic, terracotta, wooden and painted floors.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Specification	CAS Number	TWA 8 hour	STEL 15 min
2-(2-butoxyethoxy)ethanol	112-34-5	67.5 mg/m ³	101.2 mg/m ³

Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164/EU, 2019/1831/EU.

The table above shows the maximum workplace concentration values on the Community level.

Please check any national occupational exposure limit values in your country.

Recommended control procedures

Procedures concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace – if they are available and justified for the position – in accordance with the European Standards, with the conditions within the exposure place and a proper test methodology adapted to the working conditions.

8.2 Exposure controls

Appropriate technical control measures

Observe the general rules of safety and hygiene. Do not eat, drink or smoke while working. Wash hands thoroughly before breaks and after work. Wash contaminated clothing before reuse. Provide general and / or local ventilation in the workplace in order to maintain the concentration of the harmful agent in the air below the established limit values.

If there is a risk of fire on the employee's clothing during the work processes, safety showers and eye washers should be installed near the work stations. At the exit from the room where work is carried out with the use of toxic materials, there should be at least one washbasin with hot water connected to it - for every twenty employees simultaneously employed, but not less than one washbasin with fewer employees.

Personal protection

The necessity to select and use relevant personal protection appliances should take into consideration the type of risk posed by the product, workplace conditions, and the nature of interaction with the product. The personal protective appliances must comply with requirements stipulated by the Regulation (EU) 2016/425 and by the relevant standards. The employer must provide all the necessary protective appliances relevant for the particular jobs on site and meeting all quality requirements, their maintenance and cleaning included. Any contaminated or damaged personal protection appliance must be replaced immediately. Hand and body protection


Use appropriate protective gloves in case of direct contact with the product. Recommended glove material: neoprene, perbunan or polyvinyl chloride. Wear protective clothing.

Eye protection

Use tight protective glasses if there is a risk of eye contamination.

Respiratory protection

In the case of normal and intended use, it is not required.

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Thermal hazard

Not applicable.

Environmental exposure controls

Do not allow large amounts of the product to enter groundwater, sewage system, sewage or soil. Possible emissions from ventilation systems and process equipment should be checked in order to determine their compliance with the requirements of environmental protection law.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	milky white liquid, free from mechanical impurities.
Odour	characteristic
Melting point/freezing point:	~ 0°C
Boiling point or initial boiling point and boiling range :	~100°C
Flammability:	not determined
Lower and upper explosion limit:	not determined
Flash point:	not determined
Auto-ignition temperature:	non-inflammable
Decomposition temperature:	not determined
pH:	7 – 8.5
Kinematic viscosity:	not determined
Solubility:	completely dissolves in water
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not determined
Density and/or relative density:	1.00 – 1.05 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2 Other information

No additional research.

Section 10: Stability and reactivity

10.1 Reactivity

The product is not reactive under recommended storage and use conditions. It does not undergo hazardous polymerization.

10.2 Chemical stability

The product is not characterized by any instability if used under normal conditions at a temperature of 0-40°C.

10.3 Possibility of hazardous reactions

No hazardous reactions are known.

10.4 Conditions to avoid

Avoid sources of fire, ignition, open flame, excessive heating.

10.5 Incompatible materials

Strong oxidants, acids, light metals.

10.6 Hazardous decomposition products


Not known.

Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixture toxicity

Acute toxicity

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ATEmix (oral): >2 000 mg/kg

The classification criteria in accordance with CLP are not met.

Skin corrosion/irritation

The classification criteria in accordance with CLP are not met.

Serious eye damage/irritation

The classification criteria in accordance with CLP are not met.

Respiratory or skin sensitisation

The classification criteria in accordance with CLP are not met.

Germ cell mutagenicity

The classification criteria in accordance with CLP are not met.

Carcinogenicity

The classification criteria in accordance with CLP are not met

Reproductive toxicity

The classification criteria in accordance with CLP are not met.

STOT-single exposure

The classification criteria in accordance with CLP are not met.

STOT-repeated exposure

The classification criteria in accordance with CLP are not met.

Aspiration hazard

The classification criteria in accordance with CLP are not met.

Other toxic effects

Information on likely routes of exposure

Routes of exposure: skin contact, eye contact, inhalation, ingestion. For more information on the effects of each possible exposure route, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

No data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture components are not deemed as substances with endocrine-disrupting properties.

Other information

Not applicable.

Section 12: Ecological information

12.1 Toxicity

The product is not classified as environmentally hazardous.

12.2 Persistence and degradability

The surfactants contained in the product are biodegradable in accordance with the criteria included in the detergent regulation 648/2004 / EC, as amended.

12.3 Bioaccumulative potential


Bioaccumulation is not expected.

12.4 Mobility in soil

Product mobile in soil and in the aquatic environment.

12.5 Results of PBT and vPvB assessment

The mixture components do not meet the PBT or vPvB criteria according to Annex XIII to REACH.

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12.6. Endocrine disrupting properties

The mixture components are not deemed as substances with endocrine-disrupting properties.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: Dispose of waste in accordance with applicable regulations. Enter the waste code at the place of its origin. Classify as hazardous waste.

Disposal methods for used packing: reuse, recycling, and liquidation of empty containers should be conducted in compliance with the local legislation. Only thoroughly cleaned containers may be recycled.

Legal basis: Directive 2008/98/EC, 94/62/EC.

Section 14: Transport information

14.1 UN number or ID number

Not applicable. The product is not classified dangerous in transport.

14.2 UN proper shipping name

ADR / RID/IMDG/IATA

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

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

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 as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.


European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

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Regulation (EU) No 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
The product components are not on the REACH candidate list.

15.2 Chemical safety assessment

Chemical safety assessment for the mixture is not required.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H319 Irritating to eyes.

Abbreviations and acronyms

PBT Persistent, Bioaccumulative and Toxic substance

vPvB very Persistent, very Bioaccumulative substance

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods Code

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

RID International Rule for Transport of Dangerous Substances by Railway

Eye Irrit. 2 Eye Irritation, category 2

Trainings

Ahead of any interaction with the product, the user is obliged to get acquainted with the Health & Safety regulations regarding handling relevant chemicals. Proper training on top of that would be highly advised. Persons involved in the transport of hazardous materials, in accordance with the ADR agreement, should be properly trained in the scope of their duties (general training, on-the-job training and safety training).

Data sources

- own research, production;
- supplier / producer cards for producers.

Procedures used to classify the mixture

Based on computational methods.

Statement

The above information is based on the currently available data characterizing the product as well as the experience and knowledge of the manufacturer in this field. They do not constitute a quality description of the product or a promise of specific properties. They should be treated as an aid for safe handling in transport, storage and use of the product. This does not release the user from responsibility for the improper use of the above information and from complying with all legal standards in this area.