	SAFETY DATA SHEET	Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]	
	ENZIM E 211 DISHWASHING POWER	Version: 1.0/EN

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

1.1 Product identifier

ENZIM E 211 DISHWASHING POWER

UFI: 5U20-NOHR-D00E-N8P1

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

Relevant identified uses: Dishwasher powder for professional and consumer use.

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

Skin Corr. 1B H314, Eye Dam. 1 H318

Causes severe skin burns and eye damage. Causes serious eye damage.

2.2 Label elements

Hazard pictograms and signal words



DANGER

Substance name for labeling

Contains: sodium metasilicate pentahydrate.

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe dust.

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 [or shower].

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

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to properly labeled waste containers in accordance with national regulations.


Additional information

Contains: <5% phosphates; <5% non-ionic surfactants; <5% oxygen-based bleaching agents; perfumes (Citral).

2.3 Other hazards

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

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

	SAFETY DATA SHEET	Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]	
	ENZIM E 211 DISHWASHING POWER	Version: 1.0/EN

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]
CAS number: 497-19-8 EC number:: 207-838-8 Index number: 011-005-00-2 Registration number: 01-2119485498-19-XXXX	sodium carbonate	15- 30 %	Eye Irrit 2 H319
CAS number: 10213-79-3 EC number: 229-912-9 Index number: 014-010-00-8 Registration number: 01-2119449811-37-XXXX	sodium metasilicate pentahydrate	5-15 %	Met. Corr. 1 H290, Skin Corr. 1B H314, STOT SE 3 H335
CAS number: 15630-89-4 EC number: 239-707-6 Index number: - Registration number: 01-2119457268-30-XXXX	disodium carbonate, compound with hydrogen peroxide (2:3)	5-15 %	Ox. Sol. 2, H272; Acute Tox. 4, H302; Eye Dam. 1, H318; <u>Specific Conc. Limits</u> Eye Dam. 1, H318: C ≥ 25 % Acute Tox. 4, H302: C ≥ 25 % Eye Irrit. 2, H319: 7,5 % ≤ C < 25 %
CAS number: 68439-51-0 EC number: - Index number: - Registration number:: -	alcohols, C12-14, ethoxylated propoxylated	< 3 %	Skin Irrit. 2, H315; Eye Irrit. 2, H319

The full text of the hazard statements is given in Section 16.

Section 4: First aid measures

4.1 Description of first aid measures

General remarks: ATTENTION! Rescue personnel must be aware of their own danger during a rescue operation!

Skin contact: take off contaminated clothing, rinse exposed skin areas thoroughly with water for at least 15 minutes. Consult a doctor if disturbing symptoms occur.

Eye contact: remove contact lenses. Wash out with plenty of water for approximately 15 min. Avoid strong water streams – risk of cornea damage. Protect the non-irritated eye and remove any contact lenses. Get in touch with a doctor immediately. Apply a sterile dressing.

Ingestion: rinse mouth with plenty of water; do not induce vomiting by force. Get in touch with a doctor immediately if irritation appears – at the arrival, show the container or label. Never put anything in a mouth to an unconscious person.

Inhalation: remove the injured person to fresh air, keep warm and at rest. Call for medical attention if symptoms persist or worsen.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: corneal injuries are noted, and in severe cases, swelling and necrosis of deeper tissues.

Skin contact: Itching, redness, irritation, and necrosis.

Ingestion: abdominal pain, nausea, vomiting, and severe irritation of the gastrointestinal tract.

Inhalation: after inhalation, coughing, mechanical irritation of the respiratory tract, and breathing difficulties may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. The injured may require 48 hours of observation.

	SAFETY DATA SHEET		Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]		
	ENZIM E 211 DISHWASHING POWER		Version: 1.0/EN

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: the product does not require specialist fire-extinguishing appliances. Extinguish using carbon dioxide, foam, dry powder.

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

5.2 Special hazards arising from the substance or mixture

During the fire, irritating vapors and gases may be formed: carbon oxides. Avoid inhalation of combustion products - it may be hazardous to health.

5.3 Advice for firefighters

The product is not classified as flammable; general fire protection measures should be performed. Do not stay within the fire-endangered area if not equipped in appropriate chemical-resistant clothing and a breathing apparatus with independent air circulation. Collect used extinguishing media.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Make sure that removing system failures is conducted only by trained personnel. Do not let bystanders enter the endangered area until appropriate cleaning operations are properly carried out. In case of large spills / releases to the environment, isolate the endangered area. Remember to use personal protective equipment. Avoid contact with skin and eyes.

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

Place the damaged packaging in a replacement container. Collect the product mechanically and place it in tightly closed containers. Treat the collected material as waste. Clean the contaminated area with water and ventilate well.

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

Handle in accordance with the safety and hygiene rules. Avoid eyes and skin contamination. Wash hands before breaks and at the end of work. Keep unused containers tightly closed. Use as intended. Ensure proper ventilation of the room where the product is used. Use personal protective equipment if a risk assessment shows that it is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original, tightly closed containers in a dry, cool and well-ventilated place. Keep away from food and animal feed. Do not store together with incompatible materials (see subsection 10.5). Do not store together with acids. Avoid exposure to sunlight and overheating.

7.3 Specific end use(s)

Dishwasher powder for professional and consumer use.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Specification	TWA 8 hour	STEL 15 min
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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.

	SAFETY DATA SHEET	Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]	
	ENZIM E 211 DISHWASHING POWER	Version: 1.0/EN

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 in the workplace. Wash hands before breaks and after work. After cleansing, use skin moisturizing preparations. If during work processes there is a risk of exposure to corrosive agents, safety showers and eye washers should be installed near the workstations.

Personal protection

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, conditions at the workplace and the manner of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately. Industrial and professional body hygiene.

Hand and body protection

Use appropriate acid-resistant protective gloves. In the case of short-term contact, use protective gloves with the effectiveness level 2 or higher (breakthrough time > 30 min). In the case of long-term contact, use protective gloves with the effectiveness level 6 (breakthrough time > 480 min). Wear protective clothing. The gloves must conform to the EN ISO 374 standard.

Eye protection

Wear protective goggles. The glasses must comply with the EN 166 standard.

Respiratory protection

Under normal and intended use, no respiratory protection is required. Use respiratory protection during failure and when the maximum permissible concentrations value is exceeded.

Thermal hazard

Not applicable.


Environmental exposure controls

Do not let large amounts of the product get into groundwater, sewage systems, or soil.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	solid
Colour:	white, with blue granules.
Odour	characteristic of the specific fragrance composition.
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range :	not determined
Flammability:	non-flammable
Lower and upper explosion limit:	not determined
Flash point:	not determined
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	not determined
pH:	11-11.5 (10% solution at 20 °C)
Kinematic viscosity:	not determined
Solubility:	soluble in water
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not determined
Density and/or relative density:	0.840 g/cm ³
Relative vapour density:	not applicable
Particle characteristics:	not applicable

	SAFETY DATA SHEET	Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]	
	ENZIM E 211 DISHWASHING POWER	Version: 1.0/EN


9.2 Other information
No additional data.

Section 10: Stability and reactivity

- 10.1 Reactivity**
This material is considered reactive. Reacts violently with acids. Not prone to hazardous polymerization.
- 10.2 Chemical stability**
The product is stable under normal conditions of use in accordance with the instructions.
- 10.3 Possibility of hazardous reactions**
Reacts violently with acids with the release of heat.
- 10.4 Conditions to avoid**
Protect from flames, sparks, overheating, and frost.
- 10.5 Incompatible materials**
Protect from strong acids and bases, as well as from oxidizing substances.
- 10.6 Hazardous decomposition products**
There are no known hazardous decomposition products.

Section 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity
The classification criteria in accordance with CLP are not met.
- Skin corrosion/irritation
Causes severe skin burns.
- Serious eye damage/irritation
Causes serious eye damage.
- 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
May cause respiratory irritation.
- 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.
- Symptoms related to the physical, chemical and toxicological characteristics
- Eye contact: corneal injuries are noted, and in severe cases, swelling and necrosis of deeper tissues.
- Skin contact: Itching, redness, irritation, and necrosis.
- Ingestion: abdominal pain, nausea, vomiting, and severe irritation of the gastrointestinal tract.
- Inhalation: after inhalation, coughing, mechanical irritation of the respiratory tract, and breathing difficulties may occur.

	SAFETY DATA SHEET	Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]	
	ENZIM E 211 DISHWASHING POWER	Version: 1.0/EN

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

In people chronically exposed to phosphoric acid, the following are observed: weakness, rapid fatigue, headaches, sleep disturbances, chronic gingivitis and laryngitis.

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 used in the product meet the biodegradability requirements in accordance with EC Regulation 648/2004. Data confirming this fact are at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

The substances included in the mixture do not show the potential for bioaccumulation.

12.4 Mobility in soil

The product penetrates into the soil. It dissolves in water and spreads 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 with Annex XIII of REACH.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Harmful to aquatic organisms due to pH change.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: waste management should be conducted in compliance with the local legislation. Enter the waste code at the place of its origin. Classify as hazardous waste.

Disposal methods for used packing: reusage, 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

UN 3262

14.2 UN proper shipping name

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. [SODIUM METASILICATE PENTAHYDRATE]

14.3 Transport hazard class(es)

8

14.4 Packing group

III, LQ=5L

	SAFETY DATA SHEET	Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]	
	ENZIM E 211 DISHWASHING POWER	Version: 1.0/EN

14.5 Environmental hazards

The product isn't classified as hazardous to the environment in accordance with the transport regulations.

14.6 Special precautions for user

Use personal protection measures.

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.

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

According to the REACH regulation, there is no obligation to perform a chemical safety assessment for the mixture.


Section 16: Other information

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
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Skin Corr. 1B	Skin corrosion, category 1B

Full text of indicated H phrases mentioned in section 3

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

	SAFETY DATA SHEET	Date of issue: 29.03.2026
	[In accordance with the criteria of Regulation No 1907/2006 (REACH) and 2020/878/EU]	
	ENZIM E 211 DISHWASHING POWER	Version: 1.0/EN

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.

Classification and procedure used to classify the mixture in accordance with Regulation (EC) 1272/2008 [CLP]

Skin Corr. 1B H314, Eye Dam. 1 H318 - calculation method.

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.