ENZYME POWDER SAFETY DATA SHEET according to Regulation (EC) No.1907/2006 - PL (Commission Regulation (EU) 2020/878)

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Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

| Product name | : E | NZYME POWDER |
|---------------------------------|------|------------------|
| Use of the Substance/Mixture | : La | aundry detergent |
| | _ | |

For professional users only.

Product dilution information : No dilution information provided.

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

| Identified uses | : | Main washing detergent with enzyme. Automatic process |
|---------------------------------|---|---|
| Recommended restrictions on use | : | Reserved for industrial and professional use. |

Details of the supplier of the safety data sheet

| Company | Al Rayes Laundry Equipment & Accessories W.L.L P.O. Box: 3312, Doha, Qatar T: +974 44510993 |
|---------|---|
| | E:secy1@arle-qa.com |
| | W: www.arle-qa.com SDS prepared by : ENB KİMYA SAN. TİC. LTD. ŞTI. kalite@entem.com.tr |

Emergency telephone number

Poison Information Centre : 114 Ulusal Zehir Danışma Merkezi (UZEM) telephone number

Section: 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (REGULATION (EC) No

1272/2008)

| Skin corrosion and irritation, Category 1 | H314 |
|---|------|
| Acute toxicity, oral Category 4 | H302 |
| Corrosive to metals, Category 1 | H290 |
| Corrosive to metals, Category 1 | H290 |

Label elements

Labelling (REGULATION (EC) No 1272/2008)

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| Hazard pictograms | | • |
|----------------------------|---|--|
| Signal Word | Danger | |
| Hazard Statements | H302 | Harmful if swallowed |
| | H314 | Causes severe skin burns and eye damage |
| | H290 | May be corrosive to metals |
| Precautionary Statements : | Prevention: P280: Response: P301+P330+P33 ⁻ | Wear eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT |
| | induce vomiting. P305 + P351 + P3 | 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P310 P337+P313 advice/attention. | Immediately call a POISON CENTER/doctor. If eye irritation persists: Get medical |
| | P404 | Store locked up. |

Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

| Chemical Name | CAS-No. EC-No. REACH No. | ClassificationREGULATION (EC) No 1272/2008 | Concentration: [%] |
|-------------------------------|---|---|-----------------------|
| Sodium Carbonate | 497-19-8 207-838-8 01-2119485498-19 | Eye irritation Category 2; H319 | 15 - 30 |
| Anionic active surfactants | | Acute toxicity Category 4; H302 Skin corrosion Category 1B; H314 Corrosive to metals, Category 1; H290 | 1- 5 |
| Sodium chloride | 7647-14-5 | | >30 |
| Enzyme | | | 1 - 5 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

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Section: 4. FIRST AID MEASURES

Description of first aid measures

| In case of eye contact | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
|-------------------------|---|---|
| In case of skin contact | : | Rinse with plenty of water. |
| If swallowed | : | Rinse mouth. Get medical attention if symptoms occur. |
| If inhaled | : | Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur. |

Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed

: Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

Extinguishing media

| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|--------------------------------|---|---|
| Unsuitable extinguishing media | : | None known. |

Special hazards arising from the substance or mixture

| Specific hazards during firefighting | : Not flammable or combustible. |
|--------------------------------------|---|
| Hazardous combustion products | : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus |

Advice for firefighters

| Special protective equipment for firefighters | : | Use personal protective equipment. |
|---|---|---|
| Further information | : | Fire residues and contaminated fire extinguishing water must be |

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disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| Advice for non-emergency personnel | : | Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. |
|---------------------------------------|---|---|
| Advice for emergency : responders | : | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. |

Environmental precautions

| Environmental precautions : Do | not allow contact with soil, surface or ground water. |
|--------------------------------|---|
|--------------------------------|---|

Methods and materials for containment and cleaning up

| Methods for cleaning up : Swe | eep up and shovel into suitable containers for disposal. |
|-------------------------------|--|
|-------------------------------|--|

Reference to other sections

See Section 1 for emergency contact information. For personal protection see section 8. See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

Precautions for safe handling

| Advice on safe handling | : Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. |
|-------------------------|--|
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. |

Conditions for safe storage, including any incompatibilities

| Requirements for storage | : | Keep out of reach of children. Keep container tightly closed. Store |
|--------------------------|---|---|
| areas and containers | | in suitable labeled containers. |

Specific end uses

| Specific use(s) | : Main washing detergent with enzyme. Automatic |
|-----------------|---|
| | process |

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

according to Regulation (EC) No.1907/2006 - PL (Commission Regulation (EU) 2020/878)

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Contains no substances with occupational exposure limit values.

DNEL

| Sodium Carbonate | : | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m3 | | |
|------------------|---|---|--|--|
| | | End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 10 mg/m3 | | |

Exposure controls

| Appropriate engineering controls | | | | |
|--|----|--|--|--|
| Engineering measures | : | Effective exhaust ventilation system. Maintain air concentrations | | |
| | | below occupational exposure standards. | | |
| Individual protection measur | es | | | |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. | | |
| Eye/face protection (EN 166) | : | Safety goggles Face-shield | | |
| Hand protection (EN 374) | : | No special protective equipment required. | | |
| Skin and body protection (EN 14605) | : | No special protective equipment required. | | |
| Respiratory protection (EN 143, 14387) | : | When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, with filter type: | | |
| Environmental exposure controls | | | | |
| General advice | : | Consider the provision of containment around storage vessels. | | |

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Appearance | : powder |
|------------|--|
| Colour | : Not applicable and/or not determined for the mixture |
| Odour | : Not applicable and/or not determined for the mixture |

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| _ | | | |
|---|--|---|--|
| | рН | : | 7.0 - 11.0, 1 % |
| | Flash point | : | Not applicable and/or not determined for the mixture |
| | Odour Threshold | : | Not applicable and/or not determined for the mixture |
| | Melting point/freezing point | : | Not applicable and/or not determined for the mixture |
| | Initial boiling point and boiling range | : | Not applicable and/or not determined for the mixture |
| | Evaporation rate | : | Not applicable and/or not determined for the mixture |
| | Flammability (solid, gas) | : | Not applicable and/or not determined for the mixture |
| | Upper explosion limit | : | Not applicable and/or not determined for the mixture |
| | Lower explosion limit | : | Not applicable and/or not determined for the mixture |
| | Vapour pressure | : | Not applicable and/or not determined for the mixture |
| | Relative vapour density | : | Not applicable and/or not determined for the mixture |
| | Relative density | : | Not applicable and/or not determined for the mixture |
| | Water solubility Solubility in other solvents | : | Not applicable and/or not determined for the mixture Not applicable and/or not determined for the mixture |
| | Partition coefficient: n- octanol/water | : | Not applicable and/or not determined for the mixture |
| | Auto-ignition temperature | : | Not applicable and/or not determined for the mixture |
| | Thermal decomposition | : | Not applicable and/or not determined for the mixture |
| | Viscosity, kinematic | : | Not applicable and/or not determined for the mixture |
| | Explosive properties | : | Not applicable and/or not determined for the mixture |
| | Oxidizing properties | : | Not applicable and/or not determined for the mixture |
| | | | |

Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

None known.

Incompatible materials

None known.

Hazardous decomposition products

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Chronic Exposure

Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| Information on likely routes of exposure | : Inhalation, Eye contact, Skin contact |
|--|--|
| Product | |
| Acute oral toxicity | : Acute toxicity estimate : > 2,000 mg/kg |
| Acute inhalation toxicity | : There is no data available for this product. |
| Acute dermal toxicity | : There is no data available for this product. |
| Skin corrosion/irritation | : There is no data available for this product. |
| Serious eye damage/eye irritation | : There is no data available for this product. |
| Respiratory or skin sensitization | : There is no data available for this product. |
| Carcinogenicity | : There is no data available for this product. |
| Reproductive effects | : There is no data available for this product. |
| Germ cell mutagenicity | : There is no data available for this product. |
| Teratogenicity | : There is no data available for this product. |
| STOT - single exposure | : There is no data available for this product. |
| STOT - repeated exposure | : There is no data available for this product. |
| Aspiration toxicity | : There is no data available for this product. |
| Components | |
| Acute oral toxicity | : Sodium Carbonate LD50 rat: 2,800 mg/kg |
| Potential Health Effects | |
| Eyes | : Causes serious eye damage. |
| Skin | : Health injuries are not known or expected under normal use |
| Ingestion | : Health injuries are not known or expected under normal use |
| Inhalation | : Health injuries are not known or expected under normal use |

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| Experience with human exposure | | | | |
|--------------------------------|----------------------------------|--|--|--|
| Eye contact | : Redness, Pain, Corrosion | | | |
| Skin contact | : No symptoms known or expected. | | | |
| Ingestion | : No symptoms known or expected. | | | |
| Inhalation | : No symptoms known or expected. | | | |

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

| Environmental Effects | : This product has no known ecotoxicological effects. | | | |
|---|--|--|--|--|
| Product | | | | |
| Toxicity to fish | : no data available | | | |
| Toxicity to daphnia and other aquatic invertebrates | : no data available | | | |
| Toxicity to algae | : no data available | | | |
| Components | | | | |
| Toxicity to fish | : Sodium Carbonate 96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l | | | |
| Components | | | | |
| Toxicity to daphnia and other aquatic invertebrates | Sodium Carbonate 48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l | | | |
| Persistence and degradability | | | | |
| Product | | | | |
| Biodegradability | The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC | | | |
| Components | | | | |
| Biodegradability | : Sodium Carbonate Result: Not applicable - inorganic | | | |
| Bioaccumulative potential | | | | |
| no data available | | | | |
| Mobility in soil | | | | |
| no data available | | | | |
| Results of PBT and vPvB assessment | | | | |
| Product | | | | |

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|---------------|---|
| Assessment | : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |

Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste.Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

| Product | : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. |
|-----------------------------------|--|
| Contaminated packaging | Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations. |
| Guidance for Waste Code selection | : Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations. |

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

| 14.1 UN number 14.2 UN proper shipping name | Not dangerous goodsNot dangerous goods |
|--|---|
| 14.3 Transport hazard class(es) 14.4 Packing group | Not dangerous goodsNot dangerous goods |
| 14.5 Environmental hazards 14.6 Special precautions for user | : Not dangerous goods : Not dangerous goods |

Air transport (IATA)

| 14.1 UN number | : Not dangerous goods |
|-------------------------|-----------------------|
| 14.2 UN proper shipping | : Not dangerous goods |
| name | |

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| NZYME POWDER | |
|--|-----------------------|
| 14.3 Transport hazard | : Not dangerous goods |
| class(es) | |
| 14.4 Packing group | : Not dangerous goods |
| 14.5 Environmental hazards | : Not dangerous goods |
| 14.6 Special precautions for user | : Not dangerous goods |
| ea transport (IMDG/IMO) | |
| 14.1 UN number | : Not dangerous goods |
| 14.2 UN proper shipping name | : Not dangerous goods |
| 14.3 Transport hazard class(es) | : Not dangerous goods |
| 14.4 Packing group | : Not dangerous goods |
| 14.5 Environmental hazards | : Not dangerous goods |
| 14.6 Special precautions for user | : Not dangerous goods |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | : Not dangerous goods |

Section: 15. REGULATORY INFORMATION

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

| according to Detergents | : | 5 %: Aliphatic hydrocarbons, Zeolites |
|-------------------------|---|---------------------------------------|
| Regulation EC 648/2004 | | Other constituents: Perfumes |

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

| Other regulations | According to 11 December 2013, Numbered 28848 (Bis), "Ministryof Environment and Forestry"; Regulation on Classification, Labelling and Packaging of Substances and Mixtures. According to 13 Dec 2014, Numbered 29204, "Ministry of Environment and Urbanization"; Regulation onSafety Data Sheetsregarding Dangerous Substances and Mixtures. SAFETY DATA SHEET according to Regulation (EC) No.1907/2006 - PL (Commission |
|-------------------|---|
| | Regulation (EU) 2020/878) |

Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

| Procedure used to derive the classification according to REGULATION (EC) No 1272/2008 | | |
|---|--------------------|--|
| Classification | Justification | |
| Skin corrosion and irritation, Category 1 Acute toxicity, oral Category 4 Corrosive to metals, Category 1 | Calculation method | |

Full text of H-Statements

H302 H314 Harmful if swallowed. Causes severe skin burns and eye damage.

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H290May be corrosive to metals.H319Causes serious eye irritation.

Full text of other abbreviations

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM -American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSL -Domestic Substances List (Canada); ECHA – European Chemicals Agency; EC-Number – European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; IARC – International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory: LC50 – Lethal Concentration to 50 % of a test population: LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID – Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT – Self-Accelerating Decomposition Temperature; SDS – Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB -Very Persistent and Very Bioaccumulative

Prepared by : Name, Surname: Müyesser Ebret Certificate number:TÜV/01.266.06 Certificate date: 25.02.2022 Contact: kalite@entem.com.tr

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

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