1. IDENTIFICATION OF THE PRODUCT AND OF THE MANUFACTURER OR SUPPLIER

Commercial name	HERTZ ENZYM EN-11 INVERT
Product code	EN-11
Product type	Dry enzyme preparation
Identified use	Enzyme processing preparation for professional use in food production.
Manufacturer / supplier	REAX Limited Liability Company (REAX LLC)
Legal address	86A Obukhovskoy Oborony Ave., Saint Petersburg, 192029, Russian Federation
Contact details	info@reaxgroup.ru; https://hrtz.store
Emergency telephone	112; regional poison centre
Product standard	ТУ 20.14.64-001-93355948-2026; STO REAX LLC 93355948-001-2025

2. HAZARDS IDENTIFICATION

Classification	Respiratory sensitization, Category 1
Signal word	Danger
Pictograms	GHS08
Hazard statements	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	P261: Avoid breathing dust or aerosol. P284: Wear respiratory protection where dust exposure may occur. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311: If experiencing respiratory symptoms, call a POISON CENTER or doctor.
Other hazards	Dust may mechanically irritate the eyes and respiratory tract; organic powders may form a combustible dust-air mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization	Food-processing preparation. Only ingredients relevant to hazard classification and safe handling are listed below.
Hazard-relevant ingredients	Enzyme protein or mixture of enzyme proteins - Resp. Sens. 1, H334.
CAS / EC	CAS/EC: depend on enzyme class
Exposure limit	No product-specific exposure limit has been established.
Active enzyme protein (%AEP)	No validated quantitative value has been established for the finished product.

4. FIRST-AID MEASURES

Inhalation	Move to fresh air. If wheezing, coughing, shortness of breath or signs of allergy occur, obtain immediate medical attention; a delayed reaction is possible.
Skin contact	Remove contaminated clothing and wash skin with soap and water. Obtain medical advice if irritation occurs.
Eye contact	Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if easy to do. Obtain medical advice if irritation persists.
Ingestion	Rinse mouth and give a small amount of water. Do not induce vomiting. Obtain medical advice if unwell.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog, foam, dry powder or CO2, as appropriate for the surrounding fire.
Unsuitable extinguishing media	Do not use a solid water jet that may disperse dust or spread the product.
Specific hazards	A dust-air mixture of organic ingredients may ignite. Prevent dust dispersion and eliminate ignition sources.
Protective equipment for firefighters	Wear self-contained breathing apparatus and full protective clothing in a fire.

6. ACCIDENTAL RELEASE MEASURES

Avoid generating dust. Do not use compressed air or dry sweeping. Collect with an industrial vacuum fitted with an effective filter or carefully transfer mechanically into a closed container; remove residues by a wet method. During clean-up of enzyme product, wear a P3 respirator and prevent aerosol formation.

7. HANDLING AND STORAGE

Safe handling	Use with adequate ventilation. Do not eat, drink or smoke in the work area. Avoid eye contact and prolonged skin contact. Add without generating dust; do not use compressed air. Where significant organic dust may form, ground equipment and eliminate ignition sources. Use closed charging and local exhaust ventilation; prevent aerosolization of enzyme protein.

Storage conditions	Store in tightly closed original packaging in a cool, dry, well-ventilated place. Protect from moisture, direct sunlight, heat and unauthorized access.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	General ventilation; local exhaust where dust, concentrate transfer or aerosol formation may occur.
Respiratory protection	P2 respirator; use P3 for manual transfer, clean-up or significant dust. Persons with confirmed sensitization must not be exposed.
Hand protection	Protective gloves; nitrile gloves for prolonged contact.
Eye/face protection	Safety glasses.
Skin protection and hygiene	Work clothing; wash hands after handling.
AMFEP dustiness assessment	Where no validated SRS is available for the finished product, conservative controls apply: closed charging, local exhaust ventilation, no compressed air, and P3 respiratory protection during manual transfer and clean-up. Product-specific SRS is determined using Heubach I dustiness and the fraction of active enzyme protein.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Powder or fine granules
Appearance	Homogeneous dry powder or fine granules, cream to light beige.
Odour	Weak characteristic odour of the raw materials.
pH	Not applicable to the dry product; pH of an aqueous suspension is according to product specification.
Solubility	Mixes, dissolves or disperses in water depending on the functional ingredients.
Flash point	Not applicable; the product is not a flammable liquid.
Explosive properties	Quantitative dust-explosion parameters have not been established; avoid dust clouds.

10. STABILITY AND REACTIVITY

Chemical stability	Stable in closed packaging under the stated storage and handling conditions.

Possibility of hazardous reactions	Hazardous polymerization is not expected. Reactions may occur on contact with incompatible materials.
Conditions to avoid	Moisture, excessive heat and direct sunlight; for powders, dust formation and ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Fire may generate carbon and nitrogen oxides; decomposition products depend on the ingredients.

11. TOXICOLOGICAL INFORMATION

Test data for the finished mixture are limited; the assessment is based on known ingredient properties. Inhalation of enzyme dust may cause specific respiratory sensitization, asthmatic symptoms and an allergic reaction; repeated exposure increases the risk. Dust may mechanically irritate the eyes, skin and upper respiratory tract.

12. ECOLOGICAL INFORMATION

No significant environmental hazard is expected under normal handling. Prevent uncontrolled release of concentrate or large quantities of powder.

13. DISPOSAL CONSIDERATIONS

Dispose of product and packaging in accordance with local requirements, taking actual contamination into account. Do not wash large quantities into drains or surface waters.

14. TRANSPORT INFORMATION

UN number	Not assigned
Road / rail transport	Not classified as dangerous goods.
Sea transport	Not classified as dangerous goods.
Air transport	Not classified as dangerous goods.

15. REGULATORY INFORMATION

GHS label elements	Pictograms: GHS08; signal word: Danger.
H- / EUH-statements	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	P261: Avoid breathing dust or aerosol. P284: Wear respiratory protection where dust exposure may occur. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311: If experiencing respiratory symptoms, call a POISON CENTER or doctor.

Regulatory references	GOST 30333-2007 (in force on the issue date); GOST 30333-2022 (adopted, effective in the Russian Federation from 1 September 2027); GOST 32419-2022; GOST 32423-2013; GOST 32425-2013; GOST 31340-2022; TR CU 021/2011 and TR CU 029/2012 where applicable.
Technical documentation	ТУ 20.14.64-001-93355948-2026; STO REAX LLC 93355948-001-2025

16. OTHER INFORMATION

The information contained in this Safety Data Sheet is believed to be true and reliable as of the issue date. However, its accuracy, completeness and any recommendation or suggestion are provided without additional obligation or warranty. Since conditions of use are beyond the manufacturer's control, the user is responsible for determining conditions for safe handling of the product. This Safety Data Sheet is not an analytical product specification; quality parameters and specifications are provided in the product technical data sheet and certificate of analysis.

The form and section sequence of this Safety Data Sheet follow ISO 11014:2009, confirmed by ISO in 2025, and GOST 30333-2007, which is in force in the Russian Federation on the issue date. The adopted subsequent edition GOST 30333-2022, effective in the Russian Federation from 1 September 2027, has also been considered. For international structure, Annex II to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878, has been taken into account.

Safe-handling measures for the solid enzyme-containing product take account of the current guidance of the Association of Manufacturers and Formulators of Enzyme Products (AMFEP) on dusty enzyme products and SRS assessment using Heubach I, including the AMFEP clarifications updated in September 2025. The SRS value is a risk-screening tool and does not replace workplace exposure assessment.

Approval date 01.09.2026

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РОССИЙСКАЯ ФЕДЕРАЦИЯ
ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ «РЕАКС»
ИНН 2370017732 КПП 237001001 ОГРН 1252300064004
ДЛЯ ДОКУМЕНТОВ
Г. САНКТ-ПЕТЕРБУРГ