

SAFETY DATA SHEET in accordance with Regulation (EC) No. 1907/2006



DEFENSE 3

Version 3 /EN

Revision date: 15.07.2025

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

1.1. Product identifier:

Trade name:DEFENSE 3

Product code:DEFN3

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

Use:Fertilizer

Details of the supplier of the safety data

sheet Company:NOROFERT SA

Street LT. AV. Șerban Petrescu, No. 20, Sector 1, Bucharest, Romania

Phone: 0766 080 767

Email address of the person responsible for the SDS:office@norofert.ro

1.3. Telephone number that can be called in case of emergency:

NOROFERT SA – 0727034308 or Toxicological Information Center: Bucharest Institute of Public Health Tel: 021 3183606 or 021 3183620/ext. 235 (Monday-Friday 8:00-15:00)

SECTION 2: HAZARDS IDENTIFICATION 2.1

Classification of the substance or mixture

Classification Regulation (EC) No 1272/2008

It is not classified, it does not meet the classification conditions.

2.2 Label elements Labelling

Regulation (EC) 1272/20082 Hazard

statements:

Not the case

Precautionary phrases:

P501 – Dispose of contents/container in accordance with national/international regulations

2.3 Other hazards

This mixture does not contain any components considered to be persistent, bioaccumulative and toxic (PBT).

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS 3.1

Active substance

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical nature

Soluble concentrate

IUPAC name	EC	house	Conc. %, g/kg, g/l	Classification Cf. Reg. (EC) no. 1272/2008
Bacillus amyloliquefaciens	Unassigned	Unassigned	5%	Unrated
Bacillus subtilis	Unassigned	Unassigned	5%	Unrated
Trichoderma harzianum	Unassigned	Unassigned	5%	Unrated
Water	686-299-4	7732-18-5	75%	Unrated

Inert material:

IUPAC name	EC	house	Conc. %, g/kg, g/l	Classification Cf. Reg. (EC) no. 1272/2008
Glycerol	200-289-5	56-81-5	10%	Unrated

SECTION 4: FIRST AID MEASURES 4.1

Description of first aid measures

General advice Keep the product container, label or safety data sheet in case you need to consult a doctor.

Inhalation Move to fresh air. Lay the person down and keep warm. If symptoms persist, consult a doctor.

Skin contact Remove contaminated clothing immediately. Wash immediately with plenty of soap and water. If irritation persists, call a doctor. Rinse immediately and thoroughly with water, also under the eyelids, for at least 15 minutes. Immediate medical examination is required.

Eye contact

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Ingestion	Do not induce vomiting. Rinse mouth thoroughly. Call a doctor immediately.
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4.2 Most important symptoms and effects, both acute and delayed symptom	Sensitization, allergic behavior
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4.3 Indication of any immediate medical attention and special treatment needed Treatment	There is no known specific antidote. Treat symptomatically.
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SECTION 5: FIRE-FIGHTING MEASURES 5.1

Extinguishing media:

Corresponding	Water spray, Dry powder, Sand, Alcohol-resistant foam, Carbon dioxide
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POOR	Powerful water jet
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5.2 Special hazards arising from the substance or mixture itself

Specific hazards during firefighting Toxic gases may be released.

5.3 Recommendations for firefighters

Special protective equipment for firefighters - Wear full protective equipment.
protection and self-contained breathing apparatus

Additional Information	Contaminated extinguishing water should not enter drains or waterways. Fight fire upwind. Cool closed containers near fire sources with water spray.
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SECTION 6: ACCIDENTAL RELEASE MEASURES 6.1 Personal

precautions, protective equipment and emergency procedures

Provisional measures	Use personal protective equipment. Avoid contact with spilled product or contaminated surfaces. Ensure adequate ventilation. Evacuate personnel to safe areas.
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6.2 Environmental precautions

Do not discharge into surface water or sewage systems. Use the product according to the instructions on the label.

6.3 Methods and material for fire containment and cleaning up

Cleaning methods	Absorb with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust). Collect and store the product in a tightly closed and leakproof container. Clean the contaminated surface carefully. Conserve and dispose of contaminated wash water.
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Additional remarks Never put spilled product back into the packaging for reuse.

6.4 Reference to other sections

Information on safe handling, see section 7. Information on personal protective equipment, see section 8. Information on waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling tips

- No special precautions are required when handling closed packages/containers; general rules regarding packaging handling will be followed.

Fire and explosion protection measures

- No special precautions required

Hygiene measures Remove used personal protective equipment (PPE) immediately after handling this product. Remove contaminated clothing immediately and clean thoroughly before reuse. Always wash hands thoroughly with soap and water before and after eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage spaces and containers

- Store in a dry, cool and well-ventilated place accessible only to authorized personnel. Avoid direct sunlight and protect from frost.

Protective measures in case of joint storage with other materials

- Keep away from food, drink and animal feed. Storage stability

- Storage temperature 5°C-25°C

7.3 Specific end use(s)

The indications on the label and those in the instructions will be followed.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION 8.1

Control parameters

It does not contain substances with occupational exposure limit values.

8.2 Exposure controls

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Personal protective equipment

Respiratory protection	Under anticipated exposure conditions, no personal respiratory equipment is required. Respiratory protection should be worn for short-term exposures to avoid any secondary risks, after all measures to reduce exposure at source have been taken, e.g. isolation and/or exhaust ventilation. Always follow the manufacturer's instructions for use and maintenance of respiratory equipment. A particulate filter mask (protection factor 20) conforming to EN149FFP3 or EN140P3 or equivalent should be worn.
Hand protection	Suitable gloves, chemically resistant (EN 374) and resistant to prolonged contact (Recommended: protection index 6, corresponding to > 480 minutes breakthrough time, according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and others.
Eye protection	Safety glasses with side shields (EN 166)
Skin and body protection	Body protection must be chosen according to the activity and possible exposure. For example: apron, safety boots, protective overalls (according to EN 14605 for splashes or EN ISO 13982 for dust).
Hygiene measures	Remove and wash contaminated clothing and gloves, including the inside, before reuse. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using.
Protective measures:	Long-sleeved work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9:**PHYSICAL AND CHEMICAL PROPERTIES:****9.1 Information on basic physical and chemical properties**

Physical state	liquid
Color	brown
Smell	specific

Odor Acceptance Threshold	No data	
PH	6.5 - 8	
Melting point/boiling range	Boiling point/boiling range	No data
Flash point	No data	
	No data	
Autoignition temperature	No data	
Flammability	No data	
Lower explosion limit	No data	
Upper explosion limit	No data	
Vapour pressure	No data	
Relative vapor density	No data	
Relative density	No data	
Density (20°C)	1.05 ± 0.1	
Solubility in water	Soluble	
Partition coefficient n-octanol/water	No data	
Dynamic viscosity	No data	
Kinematic viscosity	No data	
Particle characteristics	No data	
Oxidizing properties	No data	
Explosivity	It is not explosive.	
Evaporation rate	No data	
9.2 Other information	No other data available	

SECTION 10: STABILITY AND REACTIVITY 10.1 Reactivity

The product is stable under normal use/handling and storage conditions.

10.2 Chemical stability

Stable under recommended storage and use conditions

10.3 Possibility of hazardous reactions

No data

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10.4 Conditions to avoid

Protection from extreme temperatures and direct sunlight

10.5 Incompatible materials Unknown**10.6 Hazardous decomposition products**

No hazardous decomposition products are known

SECTION 11:**TOXICOLOGICAL INFORMATION 11.1 Toxicological information**

Acute oral toxicity:	LD50 rat
	Dose: > 3000 mg/kg
Acute inhalation toxicity	Not the case as the product is a concentrated
Acute dermal toxicity	suspension LD50 rat
	Dose: > 2000 mg/kg Does
Skin corrosion/irritation Serious	not irritate skin
eye damage/irritation	Does not irritate the eyes
Respiratory or skin sensitization	It is not sensitizing. STOT -
Specific target organ toxicity - single exposure	No data
STOT - Specific target organ toxicity - single exposure	No data
Mutagenicity assessment	Test not required for microorganisms
Carcinogenicity assessment	Test not required for microorganisms
Reproductive toxicity assessment	Test not required for microorganisms
Developmental toxicity assessment	Test not required for microorganisms No
Aspiration hazard	data available

11.2 Information on other hazards Endocrine disrupting property

No data

SECTION 12:**ECOLOGICAL INFORMATION**

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12.1 Toxicity

- Toxicity to fish (acute) No data
- Toxicity to fish (chronic) No data
- Toxicity to daphnia No data
- Toxicity to algae/aquatic plants No data

12.2 Persistence and degradability

Biodegradation Not relevant for microorganisms

12.3 Bioaccumulative potential

Bioaccumulation Not relevant for microorganisms No data available

12.4 Mobility in soil

12.5 Result of PBT and vPvB assessments This mixture does not contain any substance considered to be persistent, bioaccumulative and toxic (PBT).

12.6 Endocrine disrupting properties No data

12.7 Other adverse effects No data

SECTION

13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways or ditches with the product or used containers. Do not dispose of waste into drains. Where possible, recycling is preferred to disposal or incineration. If recycling is not possible, dispose of in accordance with local regulations.

Contaminated packaging Empty the remaining contents. Containers should be rinsed 3 times. Empty containers should be taken to an authorized waste handling facility for recycling and disposal.

Waste code uncleaned packaging

15.01.10 packaging containing residues of hazardous substances or contaminated with hazardous substances

Legislation:

- Emergency Ordinance 92/2021 regarding the waste regime

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- Government Decision 856/2002 on waste management records and for the approval of the list of waste, including hazardous waste

- Law 249/2015 on the management of packaging and packaging waste

SECTION

14: TRANSPORT INFORMATION

According to ADN/ADR/RID/IATA this product is not classified as dangerous

14.1 – 14.5 Not applicable

14.6 Special precautions for users No data

14.7 Bulk maritime transport in accordance with IMO instruments Not applicable for products such as the one supplied

SECTION 15:

REGULATORY INFORMATION

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals does not apply : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION

16: OTHER INFORMATION

Full text of H-statements Full

text of other abbreviations

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DNA	DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the inland transport of dangerous goods
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Road CAS Registry Number (Chemical Abstracts Service)
Conc.	Concentration EC-No. European Community Number
ECx	Effective concentration for x%
EINECS	European Inventory of Existing Chemical Substances Placed on the Market
ELINCS	European List of Notified Chemical Substances
EN	European Standards
ETA	Acute toxicity assessment EU European Union
BEHOLD	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibitory concentration for x% IMDG International Maritime Dangerous Goods
LCx	Lethal concentration for x%
LDx	Lethal dose for x%
LOEC/LOEL	Minimally observable effect dose
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships NOS Not otherwise specified
NOEC/NOEL	No Observed Effect Concentration/Dose Organization for
EMCDDA	Economic Co-operation and Development World Health Organization
WHO	Organization
WRINKLE	Regulations concerning the International Carriage of Dangerous Goods by Road
TWA	Time Weighted Average UN United Nations

The information contained in this safety data sheet has been established to the best of our knowledge, information and belief at the date of its publication. The information given is intended only as a guide to safe handling, use, processing, storage, transport, disposal and release and is not to be considered a warranty or specification of quality. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process other than that specified in the text.

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*This Safety Data Sheet is prepared in accordance with Regulation (EC) No 1907/2006.
of the European Parliament and of the Council on the registration, evaluation, authorisation and
restriction of chemicals (REACH)*