DEFENCE 3

NOROFERT

Version 2 /ENG Revision date: 15.01.2022

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

1.1. Product identifier:

Trade name: DEFENCE 3

Product code: DEFN3

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

Use: Biostimulant with plant protection role

Details of the supplier of the safety data sheet

Company: NOROFERT SA

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

Phone: +40766 080 767

E-mail address of the person responsible for SDS: office@norofert.ro

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

NOROFERT SA - 0727034308 or Toxicological Information Centre: Bucharest Public Health Institute 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

According to Regulation (EC) No 1272/2008

It is not classified; it does not meet the conditions for classification.

2.2 Label elements

According to Regulation (EC) No 1272/2008

Danger phrases:

Not applicable

Precautionary phrases:

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

2.3. Other hazards

This mixture does not contain components considered to be 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

IUAPC name	EC	CAS	Conc. %, g/kg, g/l	Classification Cf. Reg. no. 1272/2008
Bacillus licheniformis FMCH001	Unassigned	Unassigned	1X10 ⁴ cfu/ml	Unrated
Bacillus amyloliquefaciens FZB 42	Unassigned	Unassigned	1X10 ⁴ cfu/ml	Unrated
Bacillus subtilis IAB/BS03	Unassigned	Unassigned	1X10 ⁴ cfu/ml	Unrated
Tricoderma harzianum T22	Unassigned	Unassigned	1X10 ⁴ cfu/ml	Unrated
Humic acids, potassium salts	271-030-1	68514-28-3	2.5%	Skin Irritation. 2; H315
Seaweed extract (Ascophyllum nodosum)	283-907-6	84775-78-0	0.5%	Unrated

Inert material:

Denumire IUPAC	EC	CAS	Conc. %, g/kg, g/l	Clasificare Cf. Reg. (EC) nr. 1272/2008
Glycerol	200- 289-5	56-81-5	10%	Unrated

SECTION 4: First-Aid Measures

4.1 Description of first aid measure

General indications Keep the product container, label or safety data sheet in case you

consult a doctor.

If inhaled It will go out into the fresh air. The person will be put to bed and

kept warm. If symptoms persist, consult a doctor.



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On skin contact Contaminated clothing will be removed immediately. Wash off

immediately with plenty of soap and water. If irritation persists, call

a doctor.

On contact with eyes Rinse immediately with plenty of water, including under the

eyelids, for at least 15 minutes. An immediate medical examination

is required.

Vomiting will not be induced. It will rinse the mouth very well. A On ingestion

doctor will be notified immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Not known

4.3 Indication of any immediate medical attention and special treatment needed

Treatment No specific antidote is known. It will be treated symptomatically.

SECTION 5: Firefighting Measures

5.1 Extinguishing media:

Water spray, foam, Carbon dioxide Suitable

Not suitable Powerful water spray

5.2 Special hazards arising from the substance or mixture

Specific risks during firefighting: The product is not flammable under normal conditions. Decomposition and combustion products of the mixture may be toxic - carbon oxides, nitrogen oxides.

5.3 Advice for firefighters

Special protective equipment - Full protective equipment and self-contained breathing

apparatus will be worn

Additional information Contaminated extinguishing water shall be prevented from

> entering the sewage system and running water. Firefighting is done against the wind. Closed containers located near sources of fire will be cooled by spraying with water jets.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Precautionary measures Personal protective equipment will be used. Avoid contact with

spilled product or contaminated surfaces. Adequate ventilation

shall be provided. Personnel will be evacuated to safe places.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater.

The product will be used according to the instructions on the label.

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6.3 Methods and material for fire containment and cleaning

gel, universal binder, sawdust). The product will be collected and stored in a tightly closed and airtight container. The contaminated surface will be carefully cleaned. Contaminated wash water shall

be conserved and disposed of.

Additional observations Never put the spilled product back into the packaging for reuse.

6.4 Reference to other sections

For information on safe handling, see section 7.

Information on personal protective equipment, see section 8.

For waste disposal information, see section 13

SECTION 7: Handling and Storage 7.1 Precautions for safe handling

Advices for safe handling

- When handling closed packages/containers, no special precautions are necessary, the general rules regarding the handling of packages will be observed.

Fire and explosion protection measures

- No special precautions are required

ito special precautions are required

Hygiene measures Remove personal protective equipment (PPE) used immediately after working with this product. Remove contaminated clothing immediately and clean thoroughly before reuse. Always wash your hands thoroughly with soap and water before and after eating, after drinking, after chewing gum, smoking, using the toilet or 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. It shall be protected from direct sunlight and protected from frost.

Protective measures in case of joint storage with other materials

- Segregate from foods and animal feeds.

Stability during storage

- 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



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1 Control parameters

It does not contain substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Respiratory protection In the anticipated exposure conditions, no individual respiratory

equipment is required. Respiratory protection should be worn for short-term exposures to avoid any secondary risk, after all measures have been taken to reduce exposure at the source, e.g. isolation and/or ventilation with air extraction. Always follow the manufacturer's instructions for use and maintenance of respiratory equipment. A particle filter mask (protection factor 20) according

to EN149FFP3 or EN140P3 or equivalent shall be worn.

Hand protection Suitable gloves, resistant from a chemical point of view (EN 374)

and to prolonged contact (Recommended: protection index 6, corresponds to > 480 minutes penetration time, according to EN 374): e.g. nitrile rubber (0.4 mm), chlorprenic rubber (0.5 mm),

butyl rubber (0.7 mm) and others.

Eye protection Safety glasses with side shields (EN 166)

Body protection Body protection must be chosen according to the activity and

possible exposure. For example: apron, protective boots, protective overalls (according to EN 14605 in the case of splashes

or EN ISO 13982 in the case of dust).

Hygiene measures The contaminated clothes and gloves will be removed and washed,

inside and out, before reuse. Wash your hands before breaks and immediately after handling the product. Do not eat, do not drink,

and do not smoke when handling the product.

Store work equipment separately. Keep away from food, drink or

animal food.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form liquid

Color brown
Odor specific

Odor threshold No data available

PH 6.5 - 8

Melting point/boiling range No data available

Boiling point/boiling rangeNo data available

Flash point No data available

Auto-ignition temperature No data available

Flammability No data available

Lower explosion limit No data available

Upper explosion limit No data available

Vapor pressure No data available

Relative vapor density No data available

Relative density No data available

Density (20 $^{\circ}$ C) 1.05 ± 0.1

Solubility in water Soluble

The n-octanol/water partition Coeff No data available

Dynamic viscosity No data available

Kinematic viscosity No data available

Particle characteristics No data available

Oxidizing properties No data available

Explosion hazard Not explosive

Evaporation rate No data available

9.2 Other information No other data available

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

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

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid

Protection from extreme temperatures and direct sunlight.

10.5 Incompatible materials Not known

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity: LD50 rat

Dossage: > 3000 mg/kg

Acute inhalation toxicityThis is not the case as the product is a concentrated

suspension

Acute dermal toxicity LD50 rat

Dossage: > 2000 mg/kg

Skin Corrosion/IrritationDoes not irritate the skin

Serious eye damage/irritation Does not irritate the eyes

Respiratory or skin sensitizationNot sensitizing

STOT – Specific target organ toxicity – single exposure

No data available

STOT – Specific target organ toxicity – single exposure

No data available

Mutagenicity assessment The test is not required for microorganisms

Assessment of carcinogenicityThe test is not required for microorganisms





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Reproductive toxicity assessmentThe test is not required for microorganisms

Developmental toxicity assessment The test is not required for microorganisms

Inhalation hazard No data available

11.2 Information regarding other hazards None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity (acute)
 Aquatic toxicity (chronical)
 Daphnia toxicity
 Toxicity to algae/aquatic plants
 No data available
 No data available

12.2 Persistence and degradability Not relevant for microorganisms

12.3 Bioaccumulative potential Not relevant for microorganisms

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment This mixture does not contain any substance

considered to be persistent, bioaccumulative and

toxic (PBT)

12.6 Endocrine disrupting propertiesNo data available

12.7 Other adverse effectsNo data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate waterways, waterways or ditches with the

product or used containers. Waste will not be disposed of down the drain. Where recycling is possible, this is preferred over disposal or incineration. If recycling is not possible, it will be disposed of in

accordance with local regulations.

Contaminated packaging The rest of the content will be emptied. The containers must be

washed 3 times. Empty containers must be taken to an authorized

waste handling facility for recycling and disposal.

Waste code uncleaned packaging





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

dangerous substances

Legislation Emergency Ordinance 92/2021 regarding the waste regime

GD 856/2002 regarding waste management records and for the approval of the list including waste, including hazardous waste

Law 249/2015 regarding 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 usersNo data available

14.7 Shipping in bulk under IMO instruments

Not applicable to products like 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 production, placing on the market and use of certain dangerous substances, preparations, and articles (Annex XVII):

Not applicable

REACH - List of candidate substances of particular concern for authorization (Article 59):

Not applicable

REACH - List of substances subject to authorization (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 (reform): Not applicable

Regulation (EC) no. 649/2012 of the European Parliament and of the Council regarding the export and import of dangerous chemical products:

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

Chemical Safety Assessment is not required for this substance.

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SECTION 16: OTHER INFORMATION

Full text of the H statements

Full text of other abbreviations

ADN DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the inland

transport of dangerous goods

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

CAS-Nr. CAS registry number (engl. Chemical Abstracts Service)

Conc. Concentration EC-No. Number European Community

ECx The effective concentration for x%

EINECS European inventory of existing chemicals introduced on the market

ELINCS European list of notified chemical substances

EN European standards

ETA Acute toxicity estimate EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying

Dangerous Chemicals in Bulk (IBC Code)

ICx The inhibitory concentration for x%

IMDG International Maritime Dangerous Goods

LCx Lethal concentration for x%

LDx Lethal dose for x%

LOEC/LOEL Minimum observable effect dose

MARPOL International Convention for the prevention of marine pollution from ships

N.O.S Not otherwise specified

NOEC/NOEL Concentration/Dose no observable effect

OCDE Organization for Economic Cooperation and Development

OMS World Health Organization

RID Regulation on the international transport of dangerous goods by road

TWA Time weighted average

UN United Nations

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The information contained in this safety data sheet has been established based on our knowledge, information and assumptions at the date of publication of this document. The information provided is for guidance only for safe handling, use, processing, storage, transport, disposal and release, and shall not be considered a warranty or specification of quality. The information relates only to the specific material designated and is not valid for the material used in combination with any other materials or in any other process, other than that specified in the text.

This Safety Data Sheet is made in accordance with Regulation (EC) no. 1907/2006 of the European Parliament and of the Council on the registration, evaluation, authorization, and restriction of chemical substances (REACH)