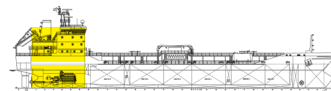


# BIOFRESH PLUS POWDER



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## MULTIPURPOSE BIOLOGICAL ACTIVATOR FOR DIGESTING ORGANIC MATTER

### PHYSICAL DATA

Aspect: light brown powder  
Odor: slight  
Specific weight: 1,31 gram/liter @  $\pm 10-15^{\circ}\text{C}$   
Biodegradability: does not contain surfactants  
Bacterial count: approx. 420 millions/gram  
Free enzymes: approx. 12,000 units/gram  
pH of usage: 6 to 8,5  
Stability: minimum 36 months

### ADVANTAGES

BIOFRESH PLUS is a balanced compound composed of bacteria, enzymes and nutritious elements that become active on fat, food leftovers, paper and organic matter causing foul odors. Its action permits the digestion of above mentioned substances with following advantages: Elimination of vegetal and animal fat, digestion of proteins, and amides, thus suppressing foul odors and preventing clogging of drains. Regeneration of bacterial flora in septic tanks with "ripristino del COD", prevention of growth in the water as the bacteria contained in BIOFRESH PLUS feed on phosphates. Fluidization of the flushed matter thus improving performance of grease traps and drains. BIOFRESH PLUS is a natural product without any harmful effect on the environment. BIOFRESH PLUS is a highly concentrate powder containing approximately 420 millions free bacteria per gram that can operate either in aerobic or anaerobic mode, i.e. with or without oxygen. BIOFRESH PLUS is designed for use in sanitary installations, kitchen drains, eating areas, waste water of food industry, slaughter houses, drains, grease traps, septic tanks, grease separation tanks, water treatment plants, etc.

### RECOMMENDED DOSAGE

#### FLUSH TANKS

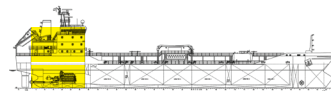
- First, second and third weeks: 100 grams of product per day for each 100 MT of discharge or per cubic meter of flush water to be treated.
- Maintenance and odor removing: 200 grams per day for each 100 MT of discharge or per cubic meter of flush water to be treated (twice a week).

#### SEPTIC TANKS

- First, second and third weeks: 100 -150 grams of product per day per cubic meter of capacity.
- Maintenance and odor removing: 50 -100 grams of product per cubic meter capacity twice a week.

It is recommended to use BIOFRESH PLUS when the discharge is inactive.

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## APPLICATION

Pour the product in the installation after dissolving the powder in lukewarm water at the rate at approx. 10% concentration (100 grams of product in 1-2 liter of water). Ensure that there is enough slant in drainpipes to guaranty proper flow of the product in the drains leading to the tank.

## WARNING

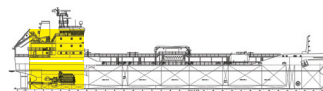
Store in cool and dry place at temperatures comprised between 10 and 45°C. Close containers properly after use. Do not use together with acids, alkali, bleach or disinfectants. Wash hands after manipulating the product (as a simple precaution). Keep away from children.

**IMPORTANT:** WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, THIS INFORMATION IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU DO A TEST TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION FURNISHED BY URRUTY GG NIEGO SRL HEREUNDER ARE GIVEN GRATIS, AND URRUTY GG NIEGO SRL ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

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## 2. Hazards Identification

Health Hazard (inhalation, ingestion, contact with skin or eyes): Most Important Hazards: The preparation is not classified as dangerous according to the criteria laid down in EU Council Directives 67/548/EC (Annex VI of Directive 2001/59/EC) and 1999/45/EEC.

Environmental Hazard: High solubility in water. Not classified as dangerous for environment.

## 3. Composition / Information on ingredients

Name	Concentration % (C)	Classification
SODIUM DODECIL SULPHONATE	< 10%	
CAS No 85117-50-6	EC 285-600-2	

## 4. First aid measures

Exposure by Inhalation: Remove victim to fresh air, in a quiet place, in an half laying position. Seek medical attention if symptoms occur.

Exposure by skin: Immediately wash affected area thoroughly with water and soap. Take medical advice if irritation appears. Organisms used are non pathogenic but can cause infection when in contact with open wounds.

Exposure by eyes contact: Immediately flush eyes with plenty of water (during 20 minutes minimum) and seek medical attention if irritation develops.

Exposure by Ingestion: Rinse mouth, do not drink anything, keep quiet. Seek medical attention.

## 5. Fire-fighting measures

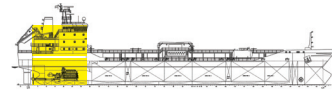
Suitable Extinguishing Media: In case of fire in the surroundings : water, sand, foam, dry chemical or carbon dioxide extinguishers may be used.

Extinguishing Media not to be used: None

Specific Exposure Hazards: If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved.

Protective Equipment for Firefighters: Full protective clothing and self-contained breathing apparatus should be worn.

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## 6. Accidental release measures

**Personal Precautions:** Evacuate personnel from immediate vicinity. Wear appropriate protective clothing (goggles, gloves and a vapour mask ). Refer to section 8.

**Environmental Precautions:** Avoid excessive release to natural water

**Methods for Cleaning Up:** Stop the leak or release at source. Transfer the spillage to waste containers labelled in the same way as the original containers. Clean the spillage area with water and detergent.

## 7. Handling and storage

**Handling:**

**Precautions:** The substance should be handled under conditions of good industrial hygiene and in

conformity with any local regulations in order to avoid unnecessary exposure.

**Technical Measures:** The use of gloves will reduce exposure to the preparation.

**Specific Requirements:** None.

**Storage:**

**Specific design for storage rooms or vessels:** None

**Incompatible Materials:** Keep away from: strong acids or alkali compounds may inactivate biological cultures. Avoid strong oxidising agents. Do not store in non protected metal containers.

**Conditions of Storage:** Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Avoid freezing temperatures. Avoid temperatures above 45 °C to preserve biological stability.

**Quantity Limits:** None

**Packaging Materials:** Packaging can be recycled

## 8. Exposure control / personal protection.

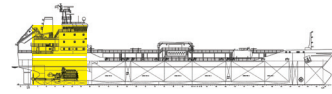
**Exposure limits**

VME 8h dusts =10 mg/m<sup>3</sup> (particles of a diameter < 100 $\mu$ ) and 5 mg/m<sup>3</sup> (particle of a diameter < 5 $\mu$ )

**Professional exposure control**

**Personal Protective Equipment:** The provision of personal protective equipment and the need to provide engineering control measures should be decided upon by the user as part of a formal exposure risk assessment. Based upon the available toxicological information the protective measures described below should be regarded as a minimum.

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**Respiratory Protection:** No special ventilation is usually necessary. However if operating conditions create high airborne concentrations of this material, based upon available information and in the absence of occupational exposure limits the use of a vapour mask to a minimum standard of EN405 FFA1P1is recommended.

**Hand Protection:** Prolonged or frequent repeated skin contact especially with broken skin. PVC or Latex protective gloves to a Standard EN374 should be provided.

**Eye Protection:** Safety glasses with protect from splashes recommended, to prevent eye exposure, should be used when handling the preparation. The protection should be capable of giving chemical protection as classified in BS2092 or EN166.

**Skin Protection:** Avoid contact with broken skin. However in case of prolonged/frequent direct handling of the material it is recommended to wear protective clothing (type 5) suitable for as classified by Standard NF EN 13982-1.

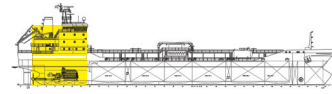
**Engineering Measures:** Engineering controls such as LEV are recommended to reduce exposure to the preparation

**Specific Control Parameters:** None

## 9. Physical and chemical properties

Physical state:	Powder
Colour:	beige
pH:	7.0-8.5
Boiling Point/Boiling Range:	Not applicable
Melting Point/Melting Range:	Not applicable
Flash Point:	Not determined
Flammability (Solid, Gas):	Not applicable
Autoflammability:	Not determined
Explosive Properties:	Predicted not explosive based on chemical structure.
Oxidising Properties:	Not determined
Vapour Pressure:	Not applicable
Relative Density:	approx 1 @ 20 °C
Solubility - Water solubility:	soluble
- Fat solubility:	Not determined
Partition coefficient n-octanol/water:	Not determined
Other Data:	None

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## 10. Stability and reactivity

Conditions to Avoid: Excessive temperature variations, below 0°C or above 45 °C  
Materials to Avoid: Strong acids or alkali compounds may inactivate biological cultures and strong oxidising agents.  
Hazardous Decomposition Products:  
None anticipated

## 11. Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

## 12. Ecological information

Mobility: This preparation has high water solubility and low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.

Biodegradability: The preparation is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available.

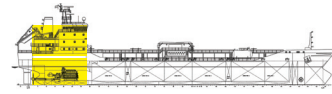
Accumulation: Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.

Ecotoxicity: The preparation is not anticipated to pose any environmental hazard. No data on toxicity specifically to soil organisms, plants and terrestrial animals are available.

Other adverse effects: There is no ozone depletion, photochemical ozone creation or global warming potential. Adverse effects in the sewage treatment plant are not anticipated.

Other information: Class 1 micro-organisms (European Federation of Biotechnology) selected from the natural environment.

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## 13. Disposal consideration

**Waste from Residues:** Collect all waste in suitable and labelled containers and dispose according to local legislation.

**Contaminated Packaging:** Dispose of by incineration or landfill in accordance with local regulations.

Empty packaging can be recycled or reused.

## 14. Transport information

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

## 15. Regulatory information

**EC Regulations:** The preparation is not classified as dangerous according to the criteria laid down in EU Council Directives 67/548/EC (Annex VI of Directive 2001/59/EC) and 1999/45/EEC.

Classification proposal

Symbols: None

R-phrases: None

S-phrases: S2 Keep out of reach of children

S 64 If swallowed, rinse mouth with water (only if the person is conscious)

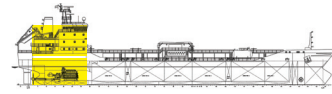
Microbial classification

The preparation is not deemed 'hazardous' according to the requirements of Council Directive 2000/54/EEC. All bacteria contained in this preparation are designated Class 1 according to Council Directive 90/679/EEC (as amended by Council Directive 93/88/EEC) and all other recognised classification systems for micro-organisms.

**Local Regulations:** Any relevant local regulations should be observed.



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## 16. Other information

### R phrases

R38 Irritating to skin  
R41 Risk of serious damage to eyes

### Concentrate

This product is to be treated as a concentrate for distribution purposes only. It is intended to be diluted for repackaging, and further diluted at the point of use. Contact Novozymes Biologicals for guidance on labelling designations in these cases. Use only according to the manufacturers instructions.

### Miscellaneous

LEV: Local Exhaust Ventilation

The information contained is based on our knowledge of the product at the date of publishing. It applies to the product as such. In case of formulation or mixture make sure no new danger appear. Users are advised of possible additional danger when the product is used in applications for which it is not intended to. The user must satisfy himself that the product is entirely suitable.

Version 3 : Revised points: 1-3 – 2007-06-01