
SAFETY DATA SHEET

SECTION 1 Identification of the substance or preparation and of the company/undertaking

1.1 Product identifier

- Product Name: GAMAZYME BOE
- Product Part Number: 624619 (12x1L), 624077 (20 liter)

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

- Use of the substance/preparation: Odour control

1.3 Details of the supplier of the safety data sheet

Name of Supplier:

Head Office:

Wilhelmsen Ships Service AS
Strandveien 20, N1324 Lysaker,
Norway Tel: (47) 6349 440 35

Supplier:

Wilhelmsen Ships Service AS
Willem Barentszstraat 50
3165AB Rotterdam
Telephone: +31 4877 777
Fax: +31 4877 888
The Netherlands

Other suppliers SEE SECTION 16!!!

For quotations contact your local Customer Services

-
- Responsible Person: Product HSE Manager,
- Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Telephone: Tel.: +31 10 4877775

1.4 Emergency telephone number

Emergency Telephone: -ONLY TO BE USED IN CASE OF AN INCIDENTNCEC:+
44 1865 407333, CHEMTREC (800) 424 9300
American Chemistry Council +1 703 527 3887,
Greece +30 210 7793777Australia: +61 3 9630 0998
Giftinformasjonsentralen in Norway Tel.: +47 22591300
Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998
FOR QUOTATIONS PLEASE CONTACT YOUR LOCAL CUSTOMER SERVICES

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Not Classified

2.2 Label elements

- Not applicable
- Contains:
- Citric acid - Sodium xylene sulphonate
- Hazard phrases
Not applicable
- Precautionary Phrases
Not applicable

SECTION 2 Hazards identification (....)**2.3 Other hazards**

- Odour: Characteristic odour, Sweet-smelling
 - Appearance: Liquid, amber, soluble in water
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SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- Citric acid
 - Concentration: 1-5 %
 - CAS Number: 77-92-9
 - EC Number: 201-069-1
 - R/H Phrases: R36 - H319
 - Symbols: Xi, GHS07
 - Categories: Eye Irrit. 2
 - REACH REG. NO: 01-21194570 26-42
- Sodium xylene sulphonate
 - Concentration: 1-5 %
 - CAS Number: 1300-72-7
 - EC Number: 215-090-9
 - R/H Phrases: R36/37/38 - H319
 - Symbols: GHS07
 - Categories: Eye Irrit. 2
 - REACH REG. NO: 01-21195133 50-56

3.2 Composition

This product consist of a synergistic blend of highly selected Bacillus microorganisms.

SECTION 4 First aid measures**4.1 Description of first aid measures**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- When in doubt or symptoms persist, seek medical attention
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- IF ON SKIN: Wash with plenty of soap and water (P302+P352).
- Contaminated clothing should be laundered before reuse
- When in doubt or symptoms persist, seek medical attention
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- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- When in doubt or symptoms persist, seek medical attention
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- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Possible redness and irritation of affected areas
- The ingestion of significant quantities may cause gastro-intestinal disturbances

4.3 Indication of any immediate medical attention and special treatment needed

- No information available

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is irritating

5.3 Advice for firefighters

- Wear Breathing Apparatus
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- No special precautions are required for this product

6.3 Methods and material for containment and cleaning up

- Flush spill area with copious amounts of water

6.4 Reference to other sections

- See Section 13
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SECTION 7 Handling and storage

7.1 Precautions for safe handling

- The usual precautions for handling chemicals should be observed
- No special precautions are required for this product

7.2 Conditions for safe storage, including any incompatibilities

- Protect from frost
- Store at temperatures not exceeding 45°C/ (P411)

7.3 Specific end use(s)

- Contact supplier for further information
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SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product

8.2 Exposure controls

- No special precautions are required for this product

8.3 Occupational exposure controls



- Wear plastic or rubber gloves
 - No respiratory protection is required unless subject to contact with substance mist
 - Wear goggles giving complete eye protection
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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Characteristic odour, Sweet-smelling
 - Appearance: Liquid, amber, soluble in water
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SECTION 9 Physical and chemical properties (....)

- pH 6 - 7
- Boiling point >100 °C to 760 °C
- Vapour pressure - not known
- Completely soluble in water
- Density 1.0 g/cm³
- pH 7,8 - 8,2 at
- Non combustible

9.2 Other information

- None
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SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- This article is considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid overheating
- Avoid contact with acids and alkalis

10.5 Incompatible materials

- Incompatible with acids and alkalis

10.6 Hazardous Decomposition Products

- No hazardous decomposition products known
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- Non-toxic

11.2 Contact with eyes

- May cause redness and irritation

11.3 Contact with skin

- In cases of severe exposure, redness and irritation may develop

11.4 Ingestion

- The ingestion of significant quantities may cause gastro-intestinal disturbances

11.5 Inhalation

- Not hazardous
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SECTION 12 Ecological information

12.1 Toxicity

- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

12.2 Persistence and degradability

- The components in this product are readily biodegradable.

12.3 Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.
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SECTION 12 Ecological information (....)

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- On available data, substance is not harmful to the environment
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- No special precautions are required for this product

13.2 Classification

- EU Waste class: -
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SECTION 14 Transport information

Not classified as hazardous for transport

14.1 UN

- UN No.: Not applicable
- Proper Shipping Name: Not applicable
- Hazard Class: Not applicable
- Packing Group: Not applicable

14.2 Environmental hazards

- Not Classified

14.3 Special precautions for user

- Not classified as hazardous for transport

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

14.5 Road/Rail (ADR/RID)

- ADR UN No.: Not applicable
- Proper Shipping Name: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- ADR subrisk: Not applicable
- ADR Flashpoint: Not applicable

14.6 Sea (IMDG)

- IMDG UN No.: Not applicable
- Proper Shipping Name: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Pack Group.: Not applicable
- IMDG EmS: Not applicable
- IMDG subrisk: Not applicable
- IMDG Flashpoint: Not applicable

14.7 Air (ICAO/IATA)

- ICAO Un No.: Not applicable
 - Proper Shipping Name: Not applicable
 - ICAO Hazard Class: Not applicable
 - ICAO Packing Group: Not applicable
 - ICAO subrisk: Not applicable
 - ICAO Flashpoint: Not applicable
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SECTION 14 Transport information (....)

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: Not applicable
 - DOT Proper Shipping Name: Not applicable
 - DOT Labels: Not applicable
 - Product RQ (lbs): Not applicable
 - Hazardous Material: Not applicable
 - Hazard Class: Not applicable
 - DOT subrisk: Not applicable
 - DOT Flashpoint: Not applicable
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SECTION 15 Regulatory information

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

- Not hazardous according to current The Dangerous Substances Directive (67/548/EEC)
- This product is not classified as hazardous according to Directive 1999/45/EEC
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- Microbial classification: All the bacteria contained in this formulation are of group 1 according to Directive 2000/54/EC (on the protection of workers from risks related to exposure to biological agents at work). Microorganisms from group 1 are unlikely to cause a human disease. When handling the product, precautions described in Annex VI of Directive 2000/54/EC have to be taken into consideration in order to make a risk assessment. Annex VI: Containment principles for industrial processes involving group 2, 3 or 4 biological agents

- Norwegian Productregistration no: 52695 (MIK)

15.2 Chemical Safety Assessment

- None
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H319: Causes serious eye irritation. R36: Irritating to eyes. R36/37/38: Irritating to eyes, respiratory system and skin.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

SECTION 16 Other information (....)

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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