

Revision: 23 Jan 2014

# SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: GAMAZYME TDS
- Product Part Number: 743146 (100 x 50 gram)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  - Use of the substance/preparation:
  - Cleaning agent
- 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

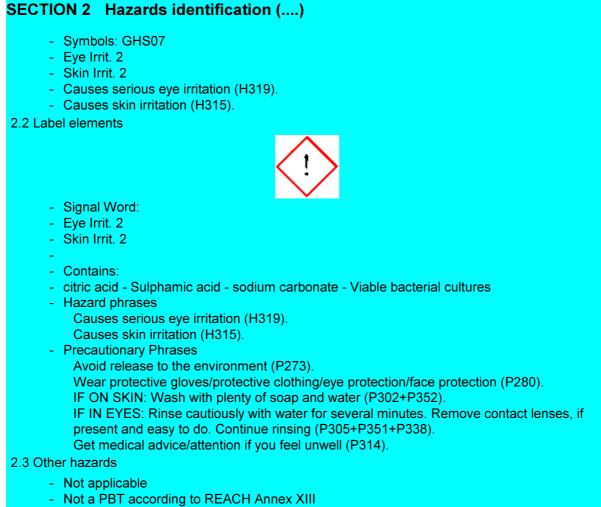
1.4 Emergency telephone number

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

- Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- Symbols: Xi
- Irritating to eyes and skin (R36/38)
- -
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Signal Word: Warning



- Odour: Mint

3.1 Mixtures

- Appearance: powder, blue, dispersible in water

#### SECTION 3 Composition/information on ingredients

```
- citric acid
   Concentration: >15%
   CAS Number: 77-92-9
   EC Number: 201-069-1
   R/H Phrases: R36 - H319
   Symbols: Xi, GHS07
   Categories: Eye Irrit. 2
- Sulphamic acid
   Concentration: >15%
   CAS Number: 5329-14-6
   EC Number: 226-218-8
   R/H Phrases: R36/38, R52/53 - H319, H315, H412
   Symbols: Xi, GHS07
   Categories: Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 3
   REACH REG. NO: 01-21194886 33-28 - 01-21198467 28-23
- sodium carbonate
   Concentration: 5-15%
   CAS Number: 497-19-8
   EC Number: 207-838-8
   R/H Phrases: R36 - H319
```

## SECTION 3 Composition/information on ingredients (....)

Symbols: Xi, GHS07 Categories: Eye Irrit. 2 - Viable bacterial cultures Concentration: <10% CAS Number: Not applicable EC Number: Not applicable R/H Phrases: Not applicable Symbols: Not applicable Categories: Not applicable

### SECTION 4 First aid measures

- 4.1 Description of first aid measures
  - IF ON SKIN: Wash with plenty of soap and water (P302+P352).
  - Seek medical attention if irritation persists
  - -
    - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
  - Irrigate eyes thoroughly whilst lifting eyelids
  - Seek medical attention if irritation persists
  - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
  - Never make an unconscious person vomit or drink fluids
  - Give 200-300mls (half pint) water to drink
  - Obtain immediate medical attention
  - Inhalation is unlikely to occur
  - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- 4.2 Most important symptoms and effects, both acute and delayed
  - Possible redness and irritation of affected areas
  - In cases of severe exposure, breathing difficulty may develop
  - May cause gastro-intestinal disturbances
- 4.3 Indication of any immediate medical attention and special treatment needed
  - Treat symptomatically

#### **SECTION 5** Fire-fighting measures

- 5.1 Extinguishing media
  - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
  - Keep container(s) exposed to fire cool, by spraying with water
- 5.2 Special hazards arising from the substance or mixture
  - Smoke from fires is toxic. Take precautions to protect personnel from exposure
    - In case of fire: (P370)
    - Decomposition products may include amines
    - Sulphur oxides may be formed
    - Nitrogen oxides may be formed
- 5.3 Advice for firefighters
  - Substance evolves toxic fumes, wear self-contained breathing apparatus

# SECTION 6 Accidental release measures

#### 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
  - Avoid scattering in the environment
  - Do not allow to enter public sewers and watercourses
  - Do not flush spilt material into any public water system
- 6.3 Methods and material for containment and cleaning up
  - Sweep or shovel-up spillage and remove to a safe place
  - Flush spill area with copious amounts of water
- 6.4 Reference to other sections
  - See Section 13

#### SECTION 7 Handling and storage

- 7.1 Precautions for safe handling
  - Wear protective clothing as per section 8
  - Do not get in eyes, on skin, or on clothing (P262).
- 7.2 Conditions for safe storage, including any incompatibilities
  - Keep in a cool, dry, well ventilated place
- 7.3 Specific end use(s)
  - Contact supplier for further information

#### SECTION 8 Exposure controls/personal protection

- 8.1 Control parameters
  - No exposure limits have been set for this substance
- 8.2 Exposure controls
  - No special precautions are required for this product
- 8.3 Occupational exposure controls



- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
- Wear suitable dustmask e.g.to BS 2091

### **SECTION 9** Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Mint
- Appearance: powder, blue, dispersible in water
- Boiling point not applicable
- Water solubility ~100 g/l
- Density 1 1,1 g/cm3
- pH1,5 at 1 % concentration
- 9.2 Other information
  - None

#### **SECTION 10** Stability and reactivity

- 10.1 Reactivity
  - This article is considered stable under normal conditions
- 10.2 Chemical stability
  - 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 contact with acids and alkalis
- 10.5 Incompatible materials
  - Incompatible with acids and alkalis
- 10.6 Hazardous Decomposition Products
  - In case of fire: (P370)
  - Decomposition products may include amines
  - Decomposition products may include ammonia
  - Decomposition products may include Nitrous gases (NOX)
  - Decomposition products may include sulphur
  - Decomposes >205 oC (melting point) and liberates sulphur dioxide and nitrogen.

### **SECTION 11** Toxicological information

- 11.1 Information on toxicological effects
  - LD50 (oral,rat) (Sulphamic acid) 3160 mg/kg
  - LD50 (oral,rat) (Citric acid) 3000 mg/kg
- 11.2 Contact with eyes
  - Causes redness and irritation
- 11.3 Contact with skin
  - Causes redness and irritation
- 11.4 Ingestion
  - May cause gastro-intestinal disturbances
- 11.5 Inhalation
  - In cases of severe exposure, irritation may develop

### **SECTION 12** Ecological information

- 12.1 Toxicity
  - LC50 (fish) (Sulphamic acid) 70,3 mg/l (96 hr)
  - LC50 (fish) (Citric acid) 440-760 mg/l (96 hr)
  - This product contain an acidic component which may cause a low pH-value. Effect depends on waterquality and the organisms tolerance due to pH-value
  - This product contains components which are classified in the EU as dangerous for the environment.
- 12.2 Persistence and degradability
  - Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.
  - If this substance is discharged at low concentrations into an adapted biological effluent treatment plant, the degrading action of the activated sludge will not be affected
- 12.3 Bioaccumulation Potential
  - Not applicable

#### SECTION 12 Ecological information (....)

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- No information available

#### **SECTION 13** Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

13.2 Classification

- EU Waste class: 06.01.06

#### **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
- 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

#### 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

#### SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
  - Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
  - Refer to current The Dangerous Substances Directive (67/548/EEC)
  - Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
  - 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: 52236 (MIK)

15.2 Chemical Safety Assessment

- None

### **SECTION 16** Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H315: Causes skin irritation. H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects. R36: Irritating to eyes. R36/38: Irritating to eyes and skin. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Wilhelmsen Ships Service Level 17, 636 St Kilda Road Melbourne Vic 3004 AUSTRALIA Tel: +61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom Tel (+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil Tel (+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545 Wilhelmsen Ships Service Co., Ltd 12-31 Torihama-cho Kanazawa-ku Yokohama-shi JP-236 0002, Japan Tel (+81) 45 775 0012 Fax (+81) 45 775 0070

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

Wilhelmsen Ships Service AS U.A.E. FI 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates Tel (+971) 4 382 3888

Wilhelmsen Ships Service AS, Willem Barentszstraat 50 3165 AB Rotterdam-Albrandswaard, the Netherlands. Tel (+31) 10 4877 777

