

Product brands by Wilhelmsen











## **GAMAZYME 700 FN**

# Wilhelmsen Ships Service AS\* Central Warehouse

Part Number: 571711 Version No: 8.11 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Issue Date: 20/06/2024 Print Date: 08/07/2024 L.REACH.ISL.EN

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

### 1.1. Product Identifier

Product name	GAMAZYME 700 FN
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	571711

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

Environment Release Category	ERC7	ERC7 Use of functional fluid at industrial site	
Sectors of Use	SU22 SU3	Professional uses Industrial uses	
Relevant identified uses	Closed sy	ystem treatment. Drain treatment Sewage wastes.	
Uses advised against	No specific uses advised against are identified.		

### 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Wilhelmsen Ships Service AS* Central Warehouse	Outback (M)SDS portal: http://jr.chemwatch.net/outb/account/autologin? login=wilhelmsen
Address	Willem Barentszstraat 50 Rotterdam Netherlands	Use our Outback portal to obtain our (M)SDSs in other languages and/or format For questions relating to our SDSs please use Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com Norway
Telephone	+31 10 4877 777	Not Available
Fax	Not Available	Not Available
Website	http://www.wilhelmsen.com	http://www.wilhelmsen.com
Email	wss.rotterdam@wilhelmsen.com	wss.global.sdsinfo@wilhelmsen.com

### 1.4. Emergency telephone number

Association / Organisation	Dutch nat. poison centre	24hrs - Chemwatch	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	+ 31 88 7558561	+31-10-4877700	+61 3 9573 3188
Other emergency telephone numbers	+ 31 10 4877700	+31-10-4877700	Not Available

Once connected and if the message is not in your preferred language then please dial 01

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**SECTION 2 Hazards identification** 

### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]

Not Applicable

#### 2.2. Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

### Hazard statement(s)

Not Applicable

### Supplementary statement(s)

Precautionary statement(s) General	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

### Precautionary statement(s) Prevention

EUH210

Not Applicable

## Precautionary statement(s) Response

Not Applicable

### Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

Not Applicable

Material does not contain any CLP Article 18 substances.

### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

Safety data sheet available on request.

## **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

### 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M- Factor	Nanoform Particle Characteristics
1. 7632-05-5 2.231-558-5 3.Not Available 4.Not Available	30-60	sodium phosphate	Not Classified <sup>[3]</sup>	Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available
1. 68439-46-3* 2.Not Available 3.Not Available	1-5	Primary C9-C11 alcoholethoxylate	Serious Eye Damage/Eye Irritation Category 2; H319 [1]	Not Available	Not Available

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1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M- Factor	Nanoform Particle Characteristics
4.Not Available				Acute M factor: Not Available Chronic M factor: Not Available	
Not Available     Not Available     Not Available     Available     Available	5-25	This product consist of a synergistic blend of highly selected Bacillus microorganisms.	Not Classified <sup>[1]</sup>	Not Available Acute M factor: Not Available Chronic M factor: Not Available	Not Available
Legend:		ed by Chemwatch; 2. Classification draw IOELVs available; [e] Substance identi	• , ,		lassification drawn from

### **SECTION 4 First aid measures**

### 4.1. Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

for phosphate salts intoxication:

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity.
- Treatment should take into consideration both anionic and cation portion of the molecule.
- All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.

### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

### 5.3. Advice for firefighters

- Wear breathing apparatus plus protective gloves in the event of a fire.
- ▶ Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.
- ▶ DO NOT approach containers suspected to be hot.

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	<ul> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of:         <ul> <li>phosphorus oxides (POx)</li> </ul> </li> </ul>

# **SECTION 6 Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

## 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety glasses.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Do NOT use air hoses for cleaning</li> <li>Place spilled material in clean, dry, sealable, labelled container.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>Prevent spillage from entering drains, sewers or water courses.</li> <li>Avoid generating dust.</li> <li>Sweep, shovel up. Recover product wherever possible.</li> </ul>

### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### 7.1. Precautions for safe handling

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> </ul>
Fire and explosion protection	See section 5
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>

## 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed.  • Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.  • These trifluorides are hypergolic oxidisers. They ignite on contact (without external source of heat or ignition) with recognised fuels - contact with these materials, following an ambient or slightly elevated temperature, is often violent and may produce
	Continued

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ignition. The state of subdivision may affect the results. ▶ Phosphates are incompatible with oxidising and reducing agents. Phosphates are susceptible to formation of highly toxic and flammable phosphine gas in the presence of strong reducing agents such as hydrides. Partial oxidation of phosphates by oxidizing agents may result in the release of toxic phosphorus oxides. · Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates. Hazard categories in accordance with Not Available Regulation (EC) No 2012/18/EU (Seveso III) **Qualifying quantity** (tonnes) of dangerous substances as referred to Not Available in Article 3(10) for the application of















- Must not be stored together
- May be stored together with specific preventions
- May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

#### 7.3. Specific end use(s)

See section 1.2

#### **SECTION 8 Exposure controls / personal protection**

TEEL-1

### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Primary C9-C11 alcoholethoxylate	Dermal 2 080 mg/kg bw/day (Systemic, Chronic) Inhalation 294 mg/m³ (Systemic, Chronic) Dermal 1 250 mg/kg bw/day (Systemic, Chronic) * Inhalation 87 mg/m³ (Systemic, Chronic) * Oral 25 mg/kg bw/day (Systemic, Chronic) *	0.104 mg/L (Water (Fresh)) 0.014 mg/L (Water - Intermittent release) 0.104 mg/L (Water (Marine)) 13.7 mg/kg sediment dw (Sediment (Fresh Water)) 13.7 mg/kg sediment dw (Sediment (Marine)) 1 mg/kg soil dw (Soil) 1.4 mg/L (STP)

<sup>\*</sup> Values for General Population

# Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

TEEL-2

### Not Applicable

Ingredient

### **Emergency Limits**

_				
GAMAZYME 700 FN	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
sodium phosphate	Not Available		Not Available	
Primary C9-C11 alcoholethoxylate	Not Available		Not Available	
This product consist of a synergistic blend of highly selected Bacillus microorganisms.	Not Available		Not Available	

#### **Occupational Exposure Banding**

TEEL-3

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Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
Primary C9-C11 alcoholethoxylate	Е	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

#### MATERIAL DATA

#### 8.2. Exposure controls

#### Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: 8.2.1. Appropriate Process controls which involve changing the way a job activity or process is done to reduce the risk. engineering controls Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. 8.2.2. Individual protection measures, such as personal protective equipment Safety glasses with side shields Chemical goggles. ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should Eye and face protection include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. Skin protection See Hand protection below The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Hands/feet protection Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. nitrile rubber. butyl rubber. • fluorocaoutchouc. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly. **Body protection** See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Other protection Overalls

### Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Barrier cream. Evewash unit.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

<sup>\* -</sup> Negative pressure demand \*\* - Continuous flow

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A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- · Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne.
- $\cdot$  Try to avoid creating dust conditions.

### 8.2.3. Environmental exposure controls

See section 12

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

### 9.1. Information on basic physical and chemical properties

Appearance	Tan brown, sawdust-like powderfibres, tan,		
Physical state	Solid	Relative density (Water = 1)	Not Applicable
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Applicable
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available BuAC = 1	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	6.5-8.5
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

### 9.2. Other information

Not Available

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

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2

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10.6. Hazardous decomposition products

See section 5.3

### **SECTION 11 Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

	The material is not the unbt to produce adverse bealth	# - the animitation of the manifest material (and the FO Dimension		
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.			
Ingestion	Phosphates are slowly and incompletely absorbed from the gastrointestinal tract and are unlikely (other than in abuse) to produce the systemic effects which occur when introduced by other routes. Such effects include vomiting, lethargy, fever, diarrhoea, falls in blood pressure, slow pulse, cyanosis, carpal spasm, coma and tetany. These effects result following sequestration of blood calcium.			
	probably, abdominal cramp. Large doses (4-8 gm) will	gm for an adult) may produce osmotic catharsis resulting in diarrhoea an almost certainly produce these effects in most individuals. Most of the ndividuals without producing systemic toxicity. Doses in excess of 10 gm		
Skin Contact	using animal models). Nevertheless, good hygiene pra be used in an occupational setting. Open cuts, abraded or irritated skin should not be exp Entry into the blood-stream through, for example, cuts	effects or skin irritation following contact (as classified by EC Directives actice requires that exposure be kept to a minimum and that suitable glow osed to this material, abrasions, puncture wounds or lesions, may produce systemic injury will e material and ensure that any external damage is suitably protected.		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.			
	The material may produce foreign body irritation in cer	tain individuals.		
Chronic	Long-term exposure to the product is not thought to pr using animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic f with disseminated atrophy of the proximal tubule. Anin	oduce chronic effects adverse to health (as classified by EC Directives		
	Long-term exposure to the product is not thought to pr using animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic f with disseminated atrophy of the proximal tubule. Anin phosphate, in both short- and long-term studies, show	roduce chronic effects adverse to health (as classified by EC Directives utes should be minimised as a matter of course.  or 9-22 weeks showed calcium deposits in the kidneys (nephrocalcinosis hals fed on sodium phosphate dibasic and potassium dihydrogen		
Chronic GAMAZYME 700 FN	Long-term exposure to the product is not thought to pr using animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic f with disseminated atrophy of the proximal tubule. Anin phosphate, in both short- and long-term studies, show calcification were also evident.	oduce chronic effects adverse to health (as classified by EC Directives utes should be minimised as a matter of course. or 9-22 weeks showed calcium deposits in the kidneys (nephrocalcinosis nals fed on sodium phosphate dibasic and potassium dihydrogen ed increased bone porosity; hyperparathyroidism and soft tissue		
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GAMAZYME 700 FN	Long-term exposure to the product is not thought to prusing animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic fwith disseminated atrophy of the proximal tubule. Anim phosphate, in both short- and long-term studies, show calcification were also evident.  TOXICITY  Not Available  TOXICITY  Oral (Rat) LD50: 17000 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	oduce chronic effects adverse to health (as classified by EC Directives utes should be minimised as a matter of course. or 9-22 weeks showed calcium deposits in the kidneys (nephrocalcinosis hals fed on sodium phosphate dibasic and potassium dihydrogen ed increased bone porosity; hyperparathyroidism and soft tissue    IRRITATION		
GAMAZYME 700 FN sodium phosphate Primary C9-C11	Long-term exposure to the product is not thought to pr using animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic f with disseminated atrophy of the proximal tubule. Anin phosphate, in both short- and long-term studies, show calcification were also evident.  TOXICITY  Not Available  TOXICITY  Oral (Rat) LD50: 17000 mg/kg <sup>[2]</sup> TOXICITY  Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: >5000 mg/kg * <sup>[2]</sup>	oduce chronic effects adverse to health (as classified by EC Directives utes should be minimised as a matter of course. or 9-22 weeks showed calcium deposits in the kidneys (nephrocalcinosis nals fed on sodium phosphate dibasic and potassium dihydrogen ed increased bone porosity; hyperparathyroidism and soft tissue    IRRITATION		
GAMAZYME 700 FN sodium phosphate Primary C9-C11	Long-term exposure to the product is not thought to pr using animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic f with disseminated atrophy of the proximal tubule. Anin phosphate, in both short- and long-term studies, show calcification were also evident.  TOXICITY  Not Available  TOXICITY  Oral (Rat) LD50: 17000 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: >5000 mg/kg * <sup>[2]</sup> Oral (Rat) LD50: 1378 mg/kg <sup>[2]</sup>	oduce chronic effects adverse to health (as classified by EC Directives utes should be minimised as a matter of course. or 9-22 weeks showed calcium deposits in the kidneys (nephrocalcinosis nals fed on sodium phosphate dibasic and potassium dihydrogen ed increased bone porosity; hyperparathyroidism and soft tissue    IRRITATION		
GAMAZYME 700 FN  sodium phosphate  Primary C9-C11 alcoholethoxylate	Long-term exposure to the product is not thought to pr using animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic f with disseminated atrophy of the proximal tubule. Anin phosphate, in both short- and long-term studies, show calcification were also evident.  TOXICITY  Not Available  TOXICITY  Oral (Rat) LD50: 17000 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: >5000 mg/kg * <sup>[2]</sup> Oral (Rat) LD50: 1378 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1400 mg/kg * <sup>[2]</sup> Oral (Rat) LD50: 2700 mg/kg * <sup>[2]</sup> Oral (Rat) LD50: 2700 mg/kg * <sup>[2]</sup>	oduce chronic effects adverse to health (as classified by EC Directives utes should be minimised as a matter of course. or 9-22 weeks showed calcium deposits in the kidneys (nephrocalcinosis nals fed on sodium phosphate dibasic and potassium dihydrogen ed increased bone porosity; hyperparathyroidism and soft tissue    IRRITATION		
GAMAZYME 700 FN sodium phosphate  Primary C9-C11 alcoholethoxylate	Long-term exposure to the product is not thought to prusing animal models); nevertheless exposure by all ro Dogs given daily doses of sodium phosphate dibasic fwith disseminated atrophy of the proximal tubule. Anin phosphate, in both short- and long-term studies, show calcification were also evident.  TOXICITY  Not Available  TOXICITY  Oral (Rat) LD50: 17000 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: >5000 mg/kg * <sup>[2]</sup> Oral (Rat) LD50: 1378 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1400 mg/kg * <sup>[2]</sup>	oduce chronic effects adverse to health (as classified by EC Directives utes should be minimised as a matter of course. or 9-22 weeks showed calcium deposits in the kidneys (nephrocalcinosis nals fed on sodium phosphate dibasic and potassium dihydrogen ed increased bone porosity; hyperparathyroidism and soft tissue    IRRITATION		

#### SODIUM PHOSPHATE

for sodium phosphate, dibasic

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be

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intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents, and other cleaning products. Exposure to these chemicals can occur through ingestion, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that volumes well above a reasonable intake level would have to occur to produce any toxic response. Moreover, no fatal case of poisoning with alcohol ethoxylates has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have shown that the use of these compounds is of low concern in terms of oral and dermal toxicity.

Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as ulcerations of the stomach, piloerection, diarrhea, and lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohol ethoxylates were applied to the skin and eyes of rabbits and rats.

Alcohol ethoxylates are according to CESIO (2000) classified as Irritant or Harmful depending on the number of EO-units:

EO < 5 gives Irritant (Xi) with R38 (Irritating to skin) and R41 (Risk of serious damage to eyes)

EO > 5-15 gives Harmful (Xn) with R22 (Harmful if swallowed) - R38/41

EO > 15-20 gives Harmful (Xn) with R22-41

>20 EO is not classified (CESIO 2000)

Oxo-AE, C13 EO10 and C13 EO15, are Irritating (Xi) with R36/38 (Irritating to eyes and skin).

AE are not included in Annex 1 of the list of dangerous substances of the Council Directive 67/548/EEC

In general, alcohol ethoxylates (AE) are readily absorbed through the skin of guinea pigs and rats and through the gastrointestinal mucosa of rats. AE are quickly eliminated from the body through the urine, faeces, and expired air (CO2).Orally dosed AE was absorbed rapidly and extensively in rats, and more than 75% of the dose was absorbed. When applied to the skin of humans, the doses were absorbed slowly and incompletely (50% absorbed in 72 hours). Half of the absorbed surfactant was excreted promptly in the urine and smaller amounts of AE appeared in the faeces and expired air (CO2) ). The metabolism of C12 AE yields PEG, carboxylic acids, and CO2 as metabolites. The LD50 values after oral administration to rats range from about 1-15 g/kg body weight indicating a low to moderate acute toxicity.

#### Primary C9-C11 alcoholethoxylate

The ability of nonionic surfactants to cause a swelling of the stratum corneum of guinea pig skin has been studied. The swelling mechanism of the skin involves a combination of ionic binding of the hydrophilic group as well as hydrophobic interactions of the alkyl chain with the substrate.

For high boiling ethylene glycol ethers (typically triethylene- and tetraethylene glycol ethers):

Skin absorption: Available skin absorption data for triethylene glycol ether (TGBE), triethylene glycol methyl ether (TGME), and triethylene glycol ethylene ether (TGEE) suggest that the rate of absorption in skin of these three glycol ethers is 22 to 34 micrograms/cm2/hr, with the methyl ether having the highest permeation constant and the butyl ether having the lowest. The rates of absorption of TGBE, TGEE and TGME are at least 100-fold less than EGME, EGEE, and EGBE, their ethylene glycol monoalkyl ether counterparts, which have absorption rates that range from 214 to 2890 micrograms/ cm2/hr. Therefore, an increase in either the chain length of the alkyl substituent or the number of ethylene glycol moieties appears to lead to a decreased rate of percutaneous absorption. However, since the ratio of the change in values of the ethylene glycol to the diethylene glycol series is larger than that

of the diethylene glycol to triethylene glycol series, the effect of the length of the chain and number of ethylene glycol moieties on absorption diminishes with an increased number of ethylene glycol moieties. Therefore, although tetraethylene glycol methyl; ether (TetraME) and tetraethylene glycol butyl ether (TetraBE) are expected to be less permeable to skin than TGME and TGBE, the differences in permeation between these molecules may only be slight.

Metabolism: The main metabolic pathway for metabolism of ethylene glycol monoalkyl ethers (EGME, EGEE, and EGBE) is oxidation via alcohol and aldehyde dehydrogenases (ALD/ADH) that leads to the formation of an alkoxy acids. Alkoxy acids are the only toxicologically significant metabolites of glycol ethers that have been detected in vivo. The principal metabolite of TGME is believed to be 2-[2-(2-methoxyethoxy)ethoxy] acetic acid .

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration. Dermal (rabbit): 4000 mg/kg \* Somnolence, ataxia, diarrhoea recorded.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

 ★ - Data either not available or does not fill the criteria for classification Legend:

Data available to make classification

#### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 11.2.2. Other information

See Section 11.1

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### **SECTION 12 Ecological information**

#### 12.1. Toxicity

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	Endpoint	Test Duration (hr)	Species	Value	Source
GAMAZYME 700 FN	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
sodium phosphate	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
Primary C9-C11 alcoholethoxylate	EC50	48h	Crustacea	2.217- 3.523mg/L	4
	LC50	96h	Fish	5-7mg/l	2
	NOEC(ECx)	720h	Fish	0.11- 0.28mg/l	2
	EC50	96h	Algae or other aquatic plants	1.4mg/l	2
This product consist of a	Endpoint	Test Duration (hr)	Species	Value	Source
synergistic blend of highly selected Bacillus microorganisms.	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	4. US EPA, Ec	· ·	ECHA Registered Substances - Ecotoxicologi ata 5. ECETOC Aquatic Hazard Assessment D entration Data 8. Vendor Data	•	

For Phosphate: The principal problems of phosphate contamination of the environment relates to eutrophication processes in lakes and ponds. Phosphorus is an essential plant nutrient and is usually the limiting nutrient for blue-green algae.

Aquatic Fate: Lakes overloaded with phosphates is the primary catalyst for the rapid growth of algae in surface waters. Planktonic algae cause turbidity and flotation films. Shore algae cause ugly muddying, films and damage to reeds. Decay of these algae causes oxygen depletion in the deep water and shallow water near the shore. The process is self-perpetuating because an anoxic condition at the sediment/water interface causes the release of more adsorbed phosphates from the sediment.

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients  No Data available for all ingredients	

# 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation	
	No Data available for all ingredients	

#### 12.4. Mobility in soil

Ingredient	Mobility	
	No Data available for all ingredients	

#### 12.5. Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			
vPvB			No

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

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### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

#### ▶ DO NOT allow wash water from cleaning or process equipment to enter drains. • It may be necessary to collect all wash water for treatment before disposal. ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Product / Packaging Where in doubt contact the responsible authority. ${\color{red} \bullet} \ \ {\sf Recycle} \ {\sf wherever} \ {\sf possible} \ {\sf or} \ {\sf consult} \ {\sf manufacturer} \ {\sf for} \ {\sf recycling} \ {\sf options}.$ disposal ▶ Consult State Land Waste Management Authority for disposal. ▶ Bury residue in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill. Not Available Waste treatment options Not Available Sewage disposal options

### **SECTION 14 Transport information**

#### **Labels Required**

•	
Marine Pollutant	NO

### Land transport (ADD): NOT DECLII ATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number  14.2. UN proper shipping name  Not Applicable  14.3. Transport hazard class(es)  Class Not Applicable  Subsidiary Hazard Not Applicable  14.4. Packing group  Not Applicable  14.5. Environmental hazard  Not Applicable			
name  Not Applicable  14.3. Transport hazard class(es)  Class Not Applicable  Subsidiary Hazard Not Applicable  14.4. Packing group  Not Applicable  Not Applicable  Not Applicable			
class(es)  Subsidiary Hazard Not Applicable  14.4. Packing group  Not Applicable  Not Applicable  Not Applicable	Not Applicable		
14.4. Packing group Not Applicable  14.5. Environmental Not Applicable			
14.5. Environmental  Not Applicable			
Not Applicable			
Hazard identification (Kemler) Not Applicable			
Classification code Not Applicable			
14.6. Special precautions Hazard Label Not Applicable			
for user Special provisions Not Applicable			
Limited quantity Not Applicable			
Tunnel Restriction Code Not Applicable			

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

44.4. IIN mumber	No. Amelianda			
14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	ICAO/IATA Class	Not Applicable		
	ICAO / IATA Subsidiary Hazard Not Applicable			
	ERG Code Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

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### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Not Applicable		
Not Applicable		
IMDG Class	Not Applicable	
IMDG Subsidiary Ha	azard Not Applicable	
Not Applicable		
Not Applicable		
EMS Number	Not Applicable	
Special provisions	Not Applicable	
Limited Quantities	Not Applicable	
	Not Applicable  IMDG Class  IMDG Subsidiary Ha  Not Applicable  Not Applicable  EMS Number  Special provisions	

### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	Not Applicable Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Classification code Not Applicable			
14.6. Special precautions for user	Special provisions Not Applicable			
	Limited quantity Not Applicable			
	Equipment required Not Applicable			
	Fire cones number Not Applicable			

### 14.7. Maritime transport in bulk according to IMO instruments

## 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium phosphate	Not Available
Primary C9-C11 alcoholethoxylate	Not Available
This product consist of a synergistic blend of highly selected Bacillus microorganisms.	Not Available

# 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium phosphate	Not Available
Primary C9-C11 alcoholethoxylate	Not Available
This product consist of a synergistic blend of highly selected Bacillus microorganisms.	Not Available

## **SECTION 15 Regulatory information**

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

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Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

#### Primary C9-C11 alcoholethoxylate is found on the following regulatory lists

Not Applicable

This product consist of a synergistic blend of highly selected Bacillus microorganisms. is found on the following regulatory lists

Not Applicable

### **Additional Regulatory Information**

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### Information according to 2012/18/EU (Seveso III):

**Seveso Category** Not Available

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (sodium phosphate; Primary C9-C11 alcoholethoxylate)		
China - IECSC	No (sodium phosphate)		
Europe - EINEC / ELINCS / NLP	No (Primary C9-C11 alcoholethoxylate)		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (sodium phosphate)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (sodium phosphate; Primary C9-C11 alcoholethoxylate)		
Legend:	Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

# **SECTION 16 Other information**

Revision Date	20/06/2024
Initial Date	11/10/2017

#### CONTACT POINT

- For quotations contact your local Customer Services - http://wssdirectory.wilhelmsen.com/#/customerservices - - Responsible for safety data sheet Wilhelmsen Ships Service AS - Prepared by: Compliance Manager, - Email: wss.global.sdsinfo@wilhelmsen.com - Telephone: Tel.: +47 67584000

### Full text Risk and Hazard codes

H319 Causes serious eye irritation.

### **SDS Version Summary**

Version	Date of Update	Sections Updated
7.11	20/06/2024	Hazards identification - Classification, Composition / information on ingredients - Ingredients

#### Other information

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Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ► EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ► NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
, EUH210	Calculation method

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