

**SAFETY DATA SHEET****SECTION 1 Identification of the substance or preparation and of the company/undertaking**

## 1.1 Product identifier

- Product Name: TANKLEEN BRIGHT
- Product Part Number: 766097 (210Ltr) + 766105 (1000Ltr)

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

- Rust remover

## 1.3 Details of the supplier of the safety data sheet

## 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, Tel.: +31 10 4877775  
 Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

## 1.4 Emergency telephone number

-ONLY TO BE USED IN CASE OF AN INCIDENT-  
 NCEC:+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.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Symbols: C
- Causes burns (R34)
- 
- Classification according to Regulation (EC) No 1272/2008
- Symbols: GHS05
- Signal Word: Danger
- Skin Corr. 1B
- Met. Corr. 1

## SECTION 2 Hazards identification (....)

### 2.2 Label elements



- Signal Word: Danger
- 
- Contains:
  - phosphoric acid ... %, orthophosphoric acid ... %
  - Citric acid
  - Primary C9-C11 alcoholethoxylate
  - 2-(2-Butoksyeethoxy)ethanol
  -
- Hazard phrases
  - Causes severe skin burns and eye damage (H314).
  - May be corrosive to metals (H290).
- Precautionary Phrases
  - Wear protective gloves/protective clothing/eye protection/face protection (P280).
  - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
  - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
  - IF exposed or concerned: (P308)
  - Immediately call a POISON CENTER or doctor/physician (P310).

### 2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII
- Appearance: Liquid, pale yellow
- Odour: Characteristic odour

## SECTION 3 Composition/information on ingredients

### 3.1 Mixtures

- Phosphoric acid.....%  
orthophosphoric acid.....%  
Concentration: 60-100%  
CAS Number: 7664-38-2  
EC Number: 231-633-2  
R/H Phrases: R34 - H314, H290  
Symbols: C, GHS05  
Categories: Skin Corr. 1B, Met. Corr. 1
- 2-(2-butoxyethoxy)ethanol  
Concentration: 1-5%  
CAS Number: 112-34-5  
EC Number: 203-961-6  
R/H Phrases: R36 - H319  
Symbols: Xi  
Categories: Eye Irrit. 2
- Citric acid  
Concentration: 1-5%  
CAS Number: 77-92-9  
EC Number: 201-069-1  
R/H Phrases: R36 - H319  
Symbols: Xi, GHS07

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

Categories: Eye Irrit. 2

- Primary C9-C11 alcohol ethoxylate

Concentration: 1-5%

CAS Number: 68439-46-3

EC Number: -

R/H Phrases: R38, R41 - H315, H318

Symbols: Xi, GHS05

Categories: Skin Irrit. 2, Eye Dam. 1

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## SECTION 4 First aid measures

### 4.1 Description of first aid measures

- 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
- 
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Give plenty of water to drink
- Never give anything by mouth to an unconscious person
- Obtain immediate medical attention
- 
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Seek immediate medical attention
- 
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
- Seek medical attention if irritation persists

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

- Can cause damage to the eyes, skin and mucous membranes
- In cases of severe exposure, irritation may develop

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

- No information available

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## 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

- Contact with metals may form explosive gases
- Reacts with combustible material
- Keep container(s) exposed to fire cool, by spraying with water
- Smoke from fires is corrosive. Take precautions to protect personnel from exposure
- Smoke from fires is toxic. Take precautions to protect personnel from exposure

### 5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus

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## 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

- Do not allow to enter public sewers and watercourses

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

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete
- Do not use metal containers for spilled liquid

### 6.4 Reference to other sections

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## SECTION 7 Handling and storage

### 7.1 Precautions for safe handling

- Wear protective clothing as per section 8
- Eyewash bottles should be available
- Do not get in eyes, on skin, or on clothing (P262).
- Do not breathe dust/fume/gas/mist/vapours/spray (P260).

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

- Store in a well-ventilated place. Keep container tightly closed (P403+P233).
- Keep in acid store
- Protect from frost

### 7.3 Specific end use(s)

- Contact supplier for further information

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## SECTION 8 Exposure controls/personal protection

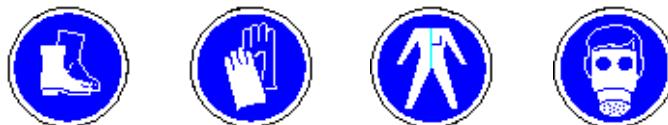
### 8.1 Control parameters

- Phosphoric acid.....%  
orthophosphoric acid.....%  
TLV (TWA) 1 mg/m<sup>3</sup> ( )
- 2-(butoxyethoxy)ethanol  
CAS:112-34-5  
Lowest value:TLV (TWA) 10 ppm, 50mg/m<sup>3</sup>  
European Union: TLV (TWA) 10 ppm, 67,5 mg/m<sup>3</sup>

### 8.2 Exposure controls

- If practicable, engineering controls should be provided where airborne concentrations exceed exposure limits

### 8.3 Occupational exposure controls



- Wear suitable clothing providing resistance to acids
- Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended)
- Penetration time of glove material:  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eyewash bottles should be available
- Wear suitable respiratory equipment
- Wear suitable respiratory protection. Gas cartridge (acid gases).

## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, pale yellow, soluble in water
- pH 1.5 - 2.5 at 1 % concentration
- Boiling point 100 °C
- Freezing point unknown
- Density 1.5 - 1.7 g/cm<sup>3</sup> at 20 deg C
- Non combustible

### 9.2 Other information

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## SECTION 10 Stability and reactivity

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

### 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 overheating

### 10.5 Incompatible materials

- Incompatible with alkalis (strong bases)
- Avoid contact with metals

### 10.6 Hazardous Decomposition Products

- Oxides of phosphorous and phosphorous acid mist

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## SECTION 11 Toxicological information

### 11.1 Information on toxicological effects

- Not available

### 11.2 Contact with eyes

- Can cause damage to the eyes
- Prolonged skin or eye contact may cause chemical burns

### 11.3 Contact with skin

- Can cause damage to the skin
- Prolonged skin or eye contact may cause chemical burns

### 11.4 Ingestion

- The ingestion of significant quantities may cause damage to mucous membranes

### 11.5 Inhalation

- Can cause damage to the respiratory system

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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.
- LC50 (fish) Acute: (2-(2-butoksyethoxyethanol) 2500 mg/l (96 hr)
- EC50 (daphnia) Acute: (2-(2-butoxyethoxyethanol) >1000 mg/l (48 hr)
- Biodegradability. OECD-test. 28 days >70 % (302B, 2-(2-butoxyethoxyethanol)

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

- LC50 (fish) Acute: (Alcoholethoxylate) 1-10 mg/l (72 hr)
- Biodegradability. OECD-test. 28 days >60 % ((Alcoholethoxylate))

### 12.2 Persistence and degradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

### 12.3 Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

### 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

- 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
- Effect depends on waterquality and the organisms tolerance due to pH-value.
- Phosphoric acid is listed in PLONOR list A.
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

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## SECTION 13 Disposal considerations

### 13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

### 13.2 Classification

- EU Waste class: 06 01 04

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## SECTION 14 Transport information



### 14.1 UN

- UN No.: UN1805
- Proper Shipping Name: Phosphoric acid, liquid
- Hazard Class: 8
- Packing Group: III

### 14.2 Environmental hazards

- Road/Rail (ADR/RID)
- ENVIRONMENTALLY HAZARDOUS
- 
- Sea (IMDG)
- Marine pollutant

### 14.3 Special precautions for user

- No special precautions are required for this product

### 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.: UN1805

## SECTION 14 Transport information (....)

- Proper Shipping Name: Phosphoric acid, liquid
- ADR Hazard Class: 8
- ADR Packing Group: III

### 14.6 Sea (IMDG)

- IMDG UN No.: UN1805
- Proper Shipping Name: Phosphoric acid, liquid
- IMDG Hazard Class: 8
- IMDG Pack Group.: III
- IMDG EmS: F-A, S-B

### 14.7 Air (ICAO/IATA)

- ICAO Un No.: UN1805
- Proper Shipping Name: Phosphoric acid, liquid
- ICAO Hazard Class: 8
- ICAO Packing Group: III

### 14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN1805
- DOT Proper Shipping Name: Phosphoric acid, liquid
- DOT Labels: 8
- Product RQ (lbs): Not applicable

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## SECTION 15 Regulatory information

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

- Composition information in accordance with EC Regulation 648/2004 of the European Parliament and of the Council of 31st March 2004 on detergents:
- Nonionic surfactants <5 %
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to The Dangerous Substances Directive (67/548/EEC)
- Classification according to Regulation (EC) No 1272/2008
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

### 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:- H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. R34: Causes burns. R36: Irritating to eyes. R38: Irritating to skin. R41: Risk of serious damage to eyes.

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](http://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

