
SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: ACID DEMAND TEST SOLUTION
- Product Part Number: part of Poolcheck 6 in 1 EDP 767020

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

- Use of the substance/mixture: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- 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

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
-
- International 24hrs Emergency NCEC: +44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification**2.1 Classification of the substance or mixture**

- Not classified as hazardous for users

2.2 Label elements

- Not applicable
- Hazard phrases
Not applicable
- Precautionary Phrases
Not applicable

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII

SECTION 2 Hazards identification (....)

- Appearance: Liquid, clear
 - Odour: Odourless
-

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- Non-classified ingredients
Concentration:
CAS Number:
EC Number:
R/H Phrases:
Symbols:
Categories:
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- Contact with skin:
 - Wash with plenty of soap and water (P352).
- Contact with eyes:
 - If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Ingestion:
 - Give plenty of water to drink
 - Induce vomiting (only if patient is conscious)
 - Seek medical attention if irritation persists
- Inhalation:
 - Remove patient to fresh air
 - When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
-

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Toxic and irritant fumes may be formed
- Sulphur oxides may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Toxic and irritant fumes may be formed
- Sulphur oxides may be formed

5.3 Advice for firefighters

- Toxic and irritant fumes may be formed
- Sulphur oxides may be formed
- Prevent run off water from entering drains if possible
- Substance evolves toxic fumes, wear self-contained breathing apparatus

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Avoid release to the environment (P273).

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal
- Ensure adequate ventilation

6.4 Reference to other sections

- See Section 13
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- No special precautions are required for this product
- Wear protective clothing as per section 8

7.2 Conditions for safe storage, including any incompatibilities

- Keep cool. Protect from sunlight (P235+P410).
- Protect from moist air
- Protect from light
- Recommended storage temperature between 20 and -3 °C

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Preparation contains anorganic and organic compounds sulphate
- 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 nitrile gloves
 - Wear rubber gloves
 - When handling this substance, e.g. sampling, wear goggles giving complete eye protection
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
-

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
-

SECTION 9 Physical and chemical properties (....)

- Appearance: clear, Liquid
- pH 2.3-2.4 at >99 (water) % concentration
- Boiling point 100 °C
- Completely soluble in water
- Density 1.01 g/cm³ at 20 deg C

9.2 Other information

- No information available
-

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

- This article is not hazardous

10.4 Conditions to avoid

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

10.5 Incompatible materials

- Not applicable

10.6 Hazardous Decomposition Products

- No hazardous decomposition products known
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- Not hazardous
- In cases of severe exposure, redness and irritation may develop
- Causes irritation
- Not regarded as a potential route of exposure.

11.2 Contact with eyes

- Causes irritation

11.3 Contact with skin

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

11.4 Ingestion

- Not regarded as a potential route of exposure.

11.5 Inhalation

- Not hazardous
-

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

- No information available

12.3 Bioaccumulation Potential

- Not applicable
-

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

- Not applicable
-

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

- This material and/or its container must be disposed of as hazardous waste
-

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

Not classified as hazardous for transport

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

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

14.7 Air (ICAO/IATA)

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

SECTION 14 Transport information (....)

- ICAO Packing Group: Not applicable
- 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
-

SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
 - Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
 - Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
 - This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010
- 15.2 Chemical Safety Assessment
- None
-

SECTION 16 Other information

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

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

SECTION 16 Other information (....)

Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

Wilhelmsen Ships Service AS U.A.E . Fl 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



SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: ALKACHECK
- Product Part Number: part of Poolcheck 6 in 1 EDP 767020

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

- Use of the substance/mixture: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- 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

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
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- International 24hrs Emergency NCEC: + 44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification**2.1 Classification of the substance or mixture**

- Not classified as hazardous for users

2.2 Label elements

- Not applicable
- Hazard phrases
Not applicable
- Precautionary Phrases
Not applicable

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII

SECTION 2 Hazards identification (....)

- Appearance: Tablets, yellow
 - Odour: Odourless
-

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- Non-classified ingredients
Concentration:
CAS Number:
EC Number:
R/H Phrases:
Symbols:
Categories:
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Give plenty of water to drink
- Induce vomiting (only if patient is conscious)
- Seek medical attention if irritation persists
- Remove patient to fresh air
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
-

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Toxic gas may be formed
- Hydrogen chloride may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Toxic gas may be formed
- Hydrogen chloride may be formed

5.3 Advice for firefighters

- Toxic gas may be formed
 - Hydrogen chloride may be formed
 - Prevent run off water from entering drains if possible
 - Substance evolves toxic fumes, wear self-contained breathing apparatus
-

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
 - Wear protective clothing as per section 8
-

SECTION 6 Accidental release measures (....)

6.2 Environmental Precautions

- Avoid release to the environment (P273).

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal

6.4 Reference to other sections

- See Section 13
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- No special precautions are required for this product
- Wear protective clothing as per section 8

7.2 Conditions for safe storage, including any incompatibilities

- Keep cool. Protect from sunlight (P235+P410).
- Keep away from oxidising substances (S14)

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Adipic acid
sulphate

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 nitrile gloves
 - Wear rubber gloves
 - When handling this substance, e.g. sampling, wear goggles giving complete eye protection
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
-

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Tablets, yellow
- pH 3.7 at 9.4 g/l % concentration
- Boiling point 265 °C
- Melting point - not known
- Completely soluble in water
- Density - not known

9.2 Other information

- No information available
-

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 contact with acids and alkalis

10.5 Incompatible materials

- Incompatible with acids and alkalis

10.6 Hazardous Decomposition Products

- May decompose on exposure to heat
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) 5700 mg/kg

11.2 Contact with eyes

- Causes irritation

11.3 Contact with skin

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

11.4 Ingestion

- Not regarded as a potential route of exposure.
- The ingestion of significant quantities may cause confusion

11.5 Inhalation

- Not hazardous
-

SECTION 12 Ecological information

12.1 Toxicity

- EC50 (Daphnia magna) 86 mg/l (48 hr)

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- Not applicable

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

- Not applicable
-

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
-

SECTION 13 Disposal considerations (....)

13.2 Classification

- This material and/or its container must be disposed of as hazardous waste
-

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

Not classified as hazardous for transport

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

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

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

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
-

SECTION 15 Regulatory information

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

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

SECTION 15 Regulatory information (....)

- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

15.2 Chemical Safety Assessment

- None
-

SECTION 16 Other information

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

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

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Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

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



SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

SECTION 1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: Cal-Test
- Product Part Number: part of Poolcheck 6 in 1 EDP 767020

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

- Use of the substance/mixture: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
-
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- 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

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
-
- International 24hrs Emergency NCEC: +44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification**2.1 Classification of the substance or mixture**

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Symbols: C
- Causes severe burns (R35)

SECTION 2 Hazards identification (....)

-
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Symbols: GHS05
- Skin Corr. 1A
- Acute Tox. 4
- Causes severe skin burns and eye damage (H314).
- Harmful if swallowed (H302).
-

2.2 Label elements

- Signal Word: Danger
-
- Contains:
- Lithium hydroxide
-
- Hazard phrases
Causes severe skin burns and eye damage (H314).
Harmful if swallowed (H302).
- Precautionary Phrases
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 if you feel unwell: (P309)
Immediately call a POISON CENTER or doctor/physician (P310).
Disposal should be in accordance with local, state or national legislation

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII
- Appearance: Tablets, beige
- Odour: Odourless

SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- Lithium hydroxide
Concentration: 10-20%
CAS Number: 1310-65-2
EC Number: 215-183-4
R/H Phrases: R35, R22 - H310, H314
Symbols: C, Xn - GHS05, GHS06
Categories: Acute Tox. 4, Skin Corr. 1A

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

SECTION 4 First aid measures (....)

- Contact with eyes: If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes, Irrigate eyes thoroughly whilst lifting eyelids, Get immediate medical advice/attention (P315).
-
- Contact with skin: IF ON SKIN: Wash with plenty of soap and water (P302+P352)., If skin irritation or rash occurs: Get medical advice/attention (P333+P313).
-
- Ingestion: Rinse mouth with water (only if the person is conscious), Give plenty of water to drink, Do NOT induce vomiting (P331)., Obtain immediate medical attention
-
- Inhalation: Remove patient to fresh air, Seek medical attention if ill effects occur, If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P341).

4.2 Most important symptoms and effects, both acute and delayed

- The ingestion of significant quantities may cause nausea/vomiting
- The ingestion of significant quantities may cause pain
- May cause shortness of breath
- Can cause damage to the eyes and skin

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

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic
- Nitrogen oxides may be formed

5.3 Advice for firefighters

- Wear chemical protection suit and breathing apparatus
-

SECTION 6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing as per section 8
- Avoid raising dust
- Ensure adequate ventilation

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- See Section 13
-

SECTION 7 Handling and storage**7.1 Precautions for safe handling**

- Avoid breathing dust/fume/gas/mist/vapours/spray (P261).
 - Ensure adequate ventilation
-

SECTION 7 Handling and storage (....)

- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Avoid contact with water
- Avoid contact with acid
- Keep away from oxidisers, heat, flames or ignition sources
- Keep in a cool, dry, well ventilated place
- Protect from sunlight (P410).

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection**8.1 Control parameters**

- Lithium hydroxide
WEL (short term) 1 mg/m3

8.2 Exposure controls

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

8.3 Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (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.
 - Breakthrough time >10 min (Level >1) (>0,11 Thick)
 - Wear respiratory protection. Filter P2
-

SECTION 9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Odour: Odourless
- Appearance: Tablets, beige
- Melting point - not known
- Partially soluble in water
- Density - not known
- Flash point - not applicable

9.2 Other information

- No information available
-

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

SECTION 10 Stability and reactivity (....)

- Reacts with metals
- Reaction products may include hydrogen
- Reaction products may include nitrogen oxides
- Generates heat on addition to water (exothermic)

10.4 Conditions to avoid

- No special precautions are required for this product

10.5 Incompatible materials

- Incompatible with acid
- Incompatible with oxidizing substances
- Incompatible with organics

10.6 Hazardous Decomposition Products

- Decomposition products may include hydrogen
 - Decomposition products may include nitrogen oxides
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

11.2 Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

11.3 Contact with skin

- Can cause damage to the skin

11.4 Ingestion

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

11.5 Inhalation

- Can cause damage to the lungs
-

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

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- Partially soluble in water.

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- Not applicable
-

SECTION 13 Disposal considerations

13.1 Waste treatment methods

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

13.2 Classification

SECTION 13 Disposal considerations (....)

- This material and/or its container must be disposed of as hazardous waste
-

SECTION 14 Transport information**14.1 UN**

- UN No.: UN2680
- Proper Shipping Name: LITHIUM HYDROXIDE, mixture
- Hazard Class: 8
- Packing Group: II

14.2 Environmental hazards

- Not applicable

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.: UN2680
- Proper Shipping Name: LITHIUM HYDROXIDE, mixture
- ADR Hazard Class: 8
- ADR Packing Group: II

14.6 Sea (IMDG)

- IMDG UN No.: UN2680
- Proper Shipping Name: LITHIUM HYDROXIDE, mixture
- IMDG Hazard Class: 8
- IMDG Pack Group.: II
- IMDG EmS: F-A, S-B
- Seg. Group: Alkalis

14.7 Air (ICAO/IATA)

- ICAO UN No.: UN2680
- Proper Shipping Name: LITHIUM HYDROXIDE, mixture
- ICAO Hazard Class: 8
- ICAO Packing Group: II

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN2680
 - DOT Proper Shipping Name: LITHIUM HYDROXIDE, mixture
 - DOT Labels: 8
 - Product RQ (lbs): Not applicable
-

SECTION 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

SECTION 15 Regulatory information (....)

- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

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:- H310: Fatal in contact with skin. H314: Causes severe skin burns and eye damage. R22: Harmful if swallowed. R35: Causes severe burns.

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

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

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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



SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: CYANURIC ACID
- Product Part Number: part of Poolcheck 6 in 1 EDP 767020

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

- Use of the substance/mixture: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- 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

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
-
- International 24hrs Emergency NCEC: + 44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification**2.1 Classification of the substance or mixture**

- Not classified as hazardous for users

2.2 Label elements

- Not applicable
- Hazard phrases
Not applicable
- Precautionary Phrases
Not applicable

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII

SECTION 2 Hazards identification (....)

- Appearance: Tablets, white
 - Odour: Odourless
 - Mildly irritating to eyes
-

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- Non-classified ingredients
Concentration: 100%
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

- Contact with skin:
 - Wash with plenty of soap and water (P352).
- Contact with eyes:
 - If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Ingestion:
 - Give plenty of water to drink
 - Induce vomiting (only if patient is conscious)
 - Seek medical attention if irritation persists
- Inhalation:
 - Remove patient to fresh air
 - When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
-

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Toxic and irritant fumes may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Toxic and irritant fumes may be formed

5.3 Advice for firefighters

- Toxic and irritant fumes may be formed
- Prevent run off water from entering drains if possible
- Substance evolves toxic fumes, wear self-contained breathing apparatus

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Avoid release to the environment (P273).

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal
- Ensure adequate ventilation

6.4 Reference to other sections

- See Section 13
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- No special precautions are required for this product
- Wear protective clothing as per section 8

7.2 Conditions for safe storage, including any incompatibilities

- Keep cool. Protect from sunlight (P235+P410).
- Protect from moist air
- Protect from light
- Recommended storage temperature between 20 and -3 °C

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Preparation contains anorganic and organic compounds sulphate
- 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 nitrile gloves
 - Wear rubber gloves
 - When handling this substance, e.g. sampling, wear goggles giving complete eye protection
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
-

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
-

SECTION 9 Physical and chemical properties (....)

- Appearance: Tablets, white
- pH 6 at 10 g/l % concentration
- Completely soluble in water
- Density 1.38 g/cm³ at 20 deg C

9.2 Other information

- No information available
-

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
- May decompose on exposure to heat

10.5 Incompatible materials

- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- No hazardous decomposition products known
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 2660 mg/kg
- LD50 (dermal) : (rat) 2000 mg/kg

11.2 Contact with eyes

- Causes irritation

11.3 Contact with skin

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

11.4 Ingestion

- Not regarded as a potential route of exposure.
- The ingestion of significant quantities may cause confusion

11.5 Inhalation

- Not hazardous
-

SECTION 12 Ecological information

12.1 Toxicity

- EC50 (Daphnia magna) 133 mg/l (48 hr)

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- Not applicable

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

SECTION 12 Ecological information (....)

- Not a PBT according to REACH Annex XIII
- 12.6 Other Adverse Effects
- Not applicable
-

SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- 13.2 Classification
- This material and/or its container must be disposed of as hazardous waste
-

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

Not classified as hazardous for transport

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

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

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

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: Not applicable
- DOT Proper Shipping Name: Not applicable

SECTION 14 Transport information (....)

- DOT Labels: Not applicable
 - Product RQ (lbs): Not applicable
-

SECTION 15 Regulatory information

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

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

15.2 Chemical Safety Assessment

- None
-

SECTION 16 Other information

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

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OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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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

SECTION 16 Other information (....)

SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: DPD NO.1 RAPID
- Product Part Number: part of Poolcheck 6 in 1 EDP 767020

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

- Use of the substance/mixture: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- 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

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
-
- International 24hrs Emergency NCEC: +44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification**2.1 Classification of the substance or mixture**

- Not classified as hazardous for users

2.2 Label elements

- Not applicable
- Hazard phrases
Not applicable
- Precautionary Phrases
Not applicable

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII

SECTION 2 Hazards identification (....)

- Appearance: Tablets, white
 - Odour: Odourless
 - Mildly irritating to eyes
-

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- N,N-Diethylbenzene-1,4-diammonium sulphate
Concentration: 0,1-1%
CAS Number: 6283-63-2
EC Number: 228-500-6
R/H Phrases: R20/21 R36/37/38 - H315, H319, H335
Symbols: Xi, Xn, GHS07
Categories: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Give plenty of water to drink
- Induce vomiting (only if patient is conscious)
- Seek medical attention if irritation persists
- Remove patient to fresh air
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

- No information available
-

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Toxic gas may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Toxic gas may be formed

5.3 Advice for firefighters

- Toxic gas may be formed
 - Prevent run off water from entering drains if possible
 - Substance evolves toxic fumes, wear self-contained breathing apparatus
-

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
- Wear protective clothing as per section 8

6.2 Environmental Precautions

SECTION 6 Accidental release measures (....)

- Avoid release to the environment (P273).
- 6.3 Methods and material for containment and cleaning up
- Collect as much as possible in clean container for reuse or disposal
- 6.4 Reference to other sections
- See Section 13
-

SECTION 7 Handling and storage

- 7.1 Precautions for safe handling
- No special precautions are required for this product
 - Wear protective clothing as per section 8
- 7.2 Conditions for safe storage, including any incompatibilities
- Keep cool. Protect from sunlight (P235+P410).
 - Keep away from oxidising substances (S14)
- 7.3 Specific end use(s)
- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

- 8.1 Control parameters
- N,N-diethylbenzene-1,4-diammonium sulphate
- 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 nitrile gloves
 - Wear rubber gloves
 - When handling this substance, e.g. sampling, wear goggles giving complete eye protection
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
-

SECTION 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- Odour: Odourless
 - Appearance: Tablets, white
 - pH 6.3 at 10 g/l % concentration
 - Melting point - not known
 - Density - not known
- 9.2 Other information
- No information available
-

SECTION 10 Stability and reactivity

- 10.1 Reactivity
-

SECTION 10 Stability and 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 metals
 - 10.5 Incompatible materials
 - Avoid contact with metals
 - 10.6 Hazardous Decomposition Products
 - May decompose on exposure to heat
-

SECTION 11 Toxicological information

- 11.1 Information on toxicological effects
 - LD50 (oral, rat) 2660 mg/kg
 - LD50 (dermal) : (rat) 2000 mg/kg
 - 11.2 Contact with eyes
 - Causes irritation
 - 11.3 Contact with skin
 - In cases of severe exposure, redness and irritation may develop
 - 11.4 Ingestion
 - Not regarded as a potential route of exposure.
 - The ingestion of significant quantities may cause confusion
 - 11.5 Inhalation
 - Not hazardous
-

SECTION 12 Ecological information

- 12.1 Toxicity
 - No information available
 - 12.2 Persistence and degradability
 - No information available
 - 12.3 Bioaccumulation Potential
 - Not applicable
 - 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
 - Not applicable
-

SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
 - Do not discharge into drains or the environment, dispose to an authorised waste collection point
 - 13.2 Classification
-

SECTION 13 Disposal considerations (....)

- This material and/or its container must be disposed of as hazardous waste
-

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

Not classified as hazardous for transport

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

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

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

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
-

SECTION 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances

SECTION 15 Regulatory information (....)

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

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. H335: May cause respiratory irritation. R20/21: Harmful by inhalation and in contact with skin. 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

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OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: PHENOL RED RAPID
- Product Part Number: part of Poolcheck 6 in 1 EDP 767020

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

- Use of the substance/mixture: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- 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

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
-
- International 24hrs Emergency NCEC: +44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

SECTION 2 Hazards identification**2.1 Classification of the substance or mixture**

- Not classified as hazardous for users

2.2 Label elements

- Not applicable
- Hazard phrases
Not applicable
- Precautionary Phrases
Not applicable

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII

SECTION 2 Hazards identification (....)

- Appearance: Tablets, orange
 - Odour: Odourless
 - Mildly irritating to skin and eyes
-

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- Sodium Chloride sulphate
Concentration:
CAS Number: 7647-14-5
EC Number: 231-598-3
R/H Phrases: Not applicable
Symbols: Not applicable
Categories: Not applicable
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Give plenty of water to drink
- Induce vomiting (only if patient is conscious)
- Seek medical attention if irritation persists
- Remove patient to fresh air
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Toxic gas may be formed
- Hydrogen chloride may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Toxic gas may be formed
- Hydrogen chloride may be formed

5.3 Advice for firefighters

- Toxic gas may be formed
 - Hydrogen chloride may be formed
 - Prevent run off water from entering drains if possible
 - Substance evolves toxic fumes, wear self-contained breathing apparatus
-

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust
 - Wear protective clothing as per section 8
-

SECTION 6 Accidental release measures (....)

6.2 Environmental Precautions

- Avoid release to the environment (P273).

6.3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal

6.4 Reference to other sections

- See Section 13
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- No special precautions are required for this product
- Wear protective clothing as per section 8

7.2 Conditions for safe storage, including any incompatibilities

- Keep cool. Protect from sunlight (P235+P410).
- Protect from moist air

7.3 Specific end use(s)

- Contact supplier for further information
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Sodium chloride
sulphate
- 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 nitrile gloves
 - Wear rubber gloves
 - When handling this substance, e.g. sampling, wear goggles giving complete eye protection
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
-

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Tablets, orange
- pH 5.2 at 12.8 g/l % concentration
- Melting point - not known
- Water solubility 358 g/l % at 20 °C
- Density 2.16 g/cm³ at 20 deg C

9.2 Other information

- No information available
-

SECTION 10 Stability and reactivity

10.1 Reactivity

- May decompose on exposure to heat

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 oxidising substances
- Avoid contact with alkalis (strong bases)

10.5 Incompatible materials

- Incompatible with alkalis (strong bases)
- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- No hazardous decomposition products known
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 3000 mg/kg
- LD50 (dermal) : (rabbit) 10000 mg/kg

11.2 Contact with eyes

- Causes irritation

11.3 Contact with skin

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

11.4 Ingestion

- Not regarded as a potential route of exposure.
- The ingestion of significant quantities may cause confusion

11.5 Inhalation

- Not hazardous
-

SECTION 12 Ecological information

12.1 Toxicity

- EC50 (Daphnia magna) 1000 mg/l (48 hr)

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- Not applicable

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

- Not applicable
-

SECTION 13 Disposal considerations

SECTION 13 Disposal considerations (....)**13.1 Waste treatment methods**

- Do not discharge into drains or the environment, dispose to an authorised waste collection point

13.2 Classification

- This material and/or its container must be disposed of as hazardous waste
-

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

Not classified as hazardous for transport

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

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

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

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
-

SECTION 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

SECTION 15 Regulatory information (....)

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

15.2 Chemical Safety Assessment

- None
-

SECTION 16 Other information

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

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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