

## SAFETY DATA SHEET

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

## 1.1 Product identifier

Product Name: POOL POWER MULTI ACTION TABLETS  
Datasheet Number: 775395 3. 0. 0  
Product Part Number: 775395 (25kg plastic bucket)  
Head Office:: Wilhelmsen Ships Service  
Address: Strandveien 20 - N-1324 Lysaker - Norway -Tel: +47 333 515 00

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

Disinfectant

## 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 10 4877 777  
Fax: +31 10 4877 888  
Responsible Person: Patrick Rijdsdijk, Product HSE Manager, Tel.:+31 6 349 440 35  
Email: patrick.rijdsdijk@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 7793777  
Australia: +61 3 9630 0998  
Giftinformasjonssentralen in Norway Tel.: +47 22591300

**2 Hazards identification**

## 2.1 Classification of the substance or mixture

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- 
- GHS05
- Eye Dam. 1
- Causes serious eye damage.
- 
- GHS09
- Aquatic Chronic 1
- Aquatic Acute 1
- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.
- 
- GHS07

## 2 Hazards identification (....)

- Acute Tox. 4
- STOT SE 3
- Harmful if swallowed.
- May cause respiratory irritation.

### 2.2 Label elements



- Signal Word: Danger
- Symbols: GHS05, GHS07, GHS09, Xn, O, N

#### Hazard phrases

- Harmful if swallowed.
- Contact with acids liberates toxic gas.
- Causes serious eye damage.
- May cause respiratory irritation.
- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

#### Precautionary Phrases

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid release to the environment.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Collect spillage.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents/container to an authorised waste collection point

#### Risk Phrases

- Contact with combustible material may cause fire (R8)
- Harmful if swallowed (R22)
- Contact with acids liberates toxic gas (R31)
- Irritating to eyes and respiratory system (R36/37)
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R50/53)

#### Safety Phrases

- Keep out of reach of children (S2)
- Keep away from combustible material (S17)
- Avoid contact with skin and eyes (S24/25)
- Wear suitable gloves and eye/face protection (S37/39)

## 2 Hazards identification (....)

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
- Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

### 2.3 Other hazards

## 3 Composition/information on ingredients

### 3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Trichloro-1,3,5-triazinetriene	50-100%	87-90-1	201-782-8	R8,R22, R31, R36/37, R50/53	O, Xn, N
Aluminium sulphate	2,5-10%	10043-01-3	233-135-0	R41	Xi GHS05
Copper sulfate	2,5-10%	7758-99-8	231-847-6	R22. R36/38, R50/53,	Xn, Xi, N GHS09, GHS07
Boric acid	<2,5%	10043-35-3	233-139-2	R60/61	T GHS08

\*See Section 16

## 4 First aid measures

### 4.1 Description of first aid measures

- Remove/Take off immediately all contaminated clothing.
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF exposed or concerned: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get immediate medical advice/attention.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids
- Get immediate medical advice/attention.

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

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- Causes redness and irritation

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

## 5 Fire-fighting measures

### 5.1 Extinguishing media

- In case of fire: use water jets for extinction
- In case of fire: use water fog for extinction

## 5 Fire-fighting measures (....)

### 5.2 Special hazards arising from the substance or mixture

- Decomposition products may include nitrogen oxides
- Decomposition products may include hydrogen chloride
- Decomposition products may include sulphur oxides
- Decomposition products may include carbon dioxide
- Decomposition products may include carbon oxides

### 5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus
  - Prevent run off water from entering drains if possible
  - Keep container(s) exposed to fire cool, by spraying with water
- 

## 6 Accidental release measures

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

- Ensure adequate ventilation
- 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

- Ensure adequate ventilation
- Remove by mechanical means

### 6.4 Reference to other sections

- None
- 

## 7 Handling and storage

### 7.1 Precautions for safe handling

- Ensure adequate ventilation
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with acid
- Do not allow dust to accumulate on surfaces and equipment

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

- Opened containers should be carefully resealed and stored in an upright position
- Store in a well-ventilated place. Keep container tightly closed.
- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid contact with acid

### 7.3 Specific end use(s)

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## 8 Exposure controls/personal protection

### 8.1 Control parameters

- Trichloro-1,3,5-triazinetrione  
TLV (TWA) 0.5 mg/m<sup>3</sup> ( )
  - Aluminium sulphate
-

## 8 Exposure controls/personal protection (....)

- No exposure limits have been set for this substance
- Copper sulfate
  - WEL (short term) (Chlorine) 0.5 ppm
  - WEL (short term) (Chlorine) 1.5 mg/m<sup>3</sup>
- Boric acid
  - TLV (TWA) 0.5 mg/m<sup>3</sup> ( )

### 8.2 Exposure controls

- No special precautions are required for this product

#### Occupational exposure controls

- Wear suitable respiratory protection. Gas cartridge (organic substances).
- Wear neoprene or nitrile gloves
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wear goggles giving complete eye protection



Respirator



Gloves



Goggles



Suit

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Odour: Chlorine
- Appearance: white, Tablets
- Oxidising, Contact with combustible material may cause fire (R8)
- Bulk density 950 kg/m<sup>3</sup> at 20 deg C

### 9.2 Other information

- None

## 10 Stability and reactivity

### 10.1 Reactivity

- Oxidising agent

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

- Avoid contact with acid
- Keep away from heat and sources of ignition

### 10.5 Incompatible materials

- Contact with acid may form toxic gases

### 10.6 Hazardous Decomposition Products

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

## 10 Stability and reactivity (....)

- Decomposition products may include sulphur oxides
  - Decomposition products may include carbon dioxide
  - Decomposition products may include carbon oxides
- 

## 11 Toxicological information

### 11.1 Information on toxicological effects

- LD50 (oral,rat) (Trichloro-1,3,5-triazinetriene) 490 mg/kg

#### Inhalation

- In cases of severe exposure, breathing difficulty may develop
- In cases of severe exposure, coughing may develop
- Causes irritation

#### Contact with skin

- Causes redness and irritation

#### Contact with eyes

- Causes redness and irritation

#### Ingestion

- No information available but must be considered harmful
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## 12 Ecological information

### 12.1 Toxicity

- LC50 (Daphnia magna) 0.21 mg/l (48 hr)
- LC50 (bluegill sunfish) 0.30 mg/l (96 hr)

### 12.2 Persistence and degradability

- No information available

### 12.3 Bioaccumulation Potential

- No information available

### 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

- No information available
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## 13 Disposal considerations

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
  - Dispose of contents/container to an authorised waste collection point
-

## 14 Transport information



Dangerous Substance



ENVIRONMENTALLY HAZARDOUS

### 14.1 UN Number

- UN3077

### 14.2 UN Proper Shipping Name

- ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID)

### 14.3 Transport hazard class(es)

- 9

### 14.4 Packing group

- III

### 14.5 Environmental hazards

- Marine pollutant

### 14.6 Special precautions for user

- No special precautions are required for this product

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

- Not applicable

### Other information

#### Road/Rail (ADR/RID)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID)		
ADR UN No.:	UN3077	ADR Hazard Class:	9
ADR Packing Group:	III	ADR subrisk:	-
ADR Flashpoint:	-		

#### Sea (IMDG)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID)		
IMDG UN No.:	UN3077	IMDG Hazard Class.:	9
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-F
IMDG subrisk:	-	IMDG Flashpoint:	-

#### Air (ICAO/IATA)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID)		
ICAO Un No.:	UN3077	ICAO Hazard Class.:	9
ICAO Packing Group.:	III	ICAO subrisk:	-
ICAO Flashpoint:	-		

## 14 Transport information (....)

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID)		
Hazardous Material:	TRICHLOROISOCYANURIC ACID		
Hazard Class:	9	Identification Number:	UN3077
Product RQ (lbs):	-	DOT subrisk:	-
DOT Flashpoint:	-		

## 15 Regulatory information

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

- SUBSTANCES OF VERY HIGH CONCERN (SVHC) ACCORDING TO REACH, ARTICLE 57:  
Boric acid, CAS: 10043-35-3
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.

15.2 Chemical Safety Assessment

None

## 16 Other information

Text of R and S phrase codes used in this safety data sheet:- R22: Harmful if swallowed; R31: Contact with acids liberates toxic gas; R36/37: Irritating to eyes and respiratory system; R36/38: Irritating to eyes and skin; R41: Risk of serious damage to eyes; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment; R8: Contact with combustible material may cause fire.

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

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

For addresses of other Wilhelmsen Ships Service offices, please refer to [www.wilhelmsen.com/shipsservice](http://www.wilhelmsen.com/shipsservice)

Wilhelmsen Ships Service Level 1, 39 Park Street South Melbourne, Vic 3205 Australian 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



**16 Other information (....)**

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

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

