

**SAFETY DATA SHEET**  
**ACCORDING TO 1907/2006/EC, ARTICLE 31**

**MAGNUM MACHINE DISHWASH DETERGENT**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1: PRODUCT IDENTIFIER**

<b>Product Name</b>	Proton Magnum Machine Dishwash Detergent
<b>Other means of identification</b>	Auto dishwash Machine dishwasher liquid Liquid detergent for dish washing machines

**1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

<b>Identified uses</b>	Automatic dish washing machines
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**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

<b>Supplier</b>	Proton ltd
<b>Address</b>	Proton House West Quay Road Southampton SO15 1GZ
<b>Web</b>	<a href="http://www.proton-washrite.co.uk">www.proton-washrite.co.uk</a>
<b>Telephone</b>	023 8063 2766
<b>Fax</b>	023 8031 5999
<b>Email</b>	
<b>Email address of the competent person</b>	

**1.4 EMERGENCY TELEPHONE NUMBER**


<b>Emergency telephone number</b>	-Mon-Fri 7:00am – 5pm 023 8063 2766
<b>Further information</b>	
<b>Uses advised against</b>	

**SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

<b>2.1.1 Classification – 1999/45/EC</b>	<b>SKIN CORR. 1A-H314; EYE DAM. 1-H318</b>
<b>Main Hazards</b>	<b>CAUSES SEVERE SKIN BURNS AND EYE DAMAGE</b>

## 2.2 LABEL ELEMENTS

<b>Symbols</b>	
<b>Signal word</b>	DANGER
<b>Hazard statement</b>	H314-CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
<b>Precautionary Statement: Prevention</b>	P102-KEEP OUT OF REACH OF CHILDREN. P260-DO NOT BREATH MIST. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
<b>Precautionary Statement: Response</b>	P 15- RESTRICTED TO PROFESSIONAL USERS.  P301+P330+P331- IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. P303+P361+P353- IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P305+P351+P338- IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND. P304+P340-IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. P315- GET IMMEDIATE MEDICAL ADVICE/ATTENTION. P501- DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL REGULATIONS

## 2.3 OTHER HAZARDS

<b>Other hazards</b>	Causes severe burns
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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Range	EC No	CAS No	Reach No/Submission No	Classification according to 67/548/EEC
SODIUM HYDROXIDE	10-20%	215-185-5	1310-73-2	01-2119457892-27	H314

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

<b>Inhalation</b>	IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE). IN CASE OF ACCIDENT BY INHALATION: REMOVE CASUALTY TO FRESH AIR AND KEEP AT REST.
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<b>Eye contact</b>	RINSE IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE ANY CONTACT LENSES AND OPEN EYELIDS. GET MEDICAL ATTENTION.
<b>Skin Contact</b>	RINSE IMMEDIATELY WITH PLENTY OF WATER. GET MEDICAL ATTENTION
<b>Ingestion</b>	DO NOT INDUCE VOMITING. DRINK 1 TO 2 GLASSES OF WATER. IF SWALLOWED, RINSE MOUTH WITH WATER (ONLY IF PERSON IS CONSCIOUS)

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

<b>Inhalation</b>	INHALATION MAY CAUSE NAUSEA AND VOMITING.
<b>Eye contact</b>	SEVERE IRRITATION, CAUSES SERIOUS EYE TISSUE DAMAGE.
<b>Skin Contact</b>	SEVERE CORROSIVE SKIN DAMAGE.
<b>Ingestion</b>	INGESTION MAY CAUSE NAUSEA AND VOMITING

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

<b>Inhalation</b>	IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW LABEL WHERE POSSIBLE) REMOVE THE EFFECTED PERSON FROM THE SOURCE OF CONTAMINATION IMMEDIATELY.
<b>Eye contact</b>	SEVERE IRRITATION. RINSE IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE ANY CONTACT LENSES AND OPEN EYELIDS. GET MEDICAL ATTENTION.
<b>Skin Contact</b>	SEVERE IRRITATION. RINSE IMMEDIATELY WITH PLENTY OF WATER. GET MEDICAL ATTENTION
<b>Ingestion</b>	INGESTION MAY CAUSE NAUSEA AND VOMITING, RINSE MOUTH THOROUGHLY. DRINK 1 TO 2 GLASSES OF WATER

#### GENERAL INFORMATION

	AVOID CONTACT WITH EYES AND SKIN. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE)
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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

	WATER SPRAY
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#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

	IRRITATING GASES OR VAPOURS.
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#### 5.3 ADVICE FOR FIREFIGHTERS

	SELF-CONTAINED BREATHING APPARATUS. (SCBA)
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

### 6.2 ENVIRONMENTAL PRECAUTIONS

ADVISE LOCAL AUTHORITIES IF LARGE SPILLS CANNOT BE CONTAINED.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

ABSORB WITH INERT, ABSORBENT MATERIAL.

### 6.4 REFERENCE TO OTHER SECTIONS

FOR PERSONAL PROTECTION, SEE SECTION 8, FOR WASTE DISPOSAL SEE SECTION 13.

### FURTHER INFORMATION

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

WEAR PROTECTIVE GLOVES, EYE/FACE PROTECTION. ADOPT BEST MANUAL HANDLING CONSIDERATIONS WHEN HANDLING, CARRYING AND DISPENSING. AVOID CONTACT WITH EYES AND SKIN. KEEP ONLY IN THE ORIGINAL CONTAINER. KEEP OUT OF REACH OF CHILDREN.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

DO NOT MIX WITH ANY OTHER PRODUCTS. KEEP ONLY IN THE ORIGINAL CONTAINER.

### 7.3 SPECIFIC END USE(S)

THE IDENTIFIED USES FOR THIS PRODUCT ARE DETAILED IN SECTION 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

NO DATA IS AVAILABLE ON THIS PRODUCT

#### Sodium Hydroxide

SHORT-TERM EXPOSURE LIMIT  
(15-MINUTES): WEL 2MG/M3

### 8.2 EXPOSURE CONTROLS



<b>8.2.1 Appropriate engineering controls</b>	NOT NORMALLY REQUIRED
<b>8.2.2 Individual protection measures</b>	ADOPT BEST MANUAL HANDLING CONSIDERATIONS WHEN HANDLING, CARRYING AND DISPENSING. USE APPROPRIATE CLOTHING.
<b>Eye/face protection</b>	WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION
<b>Skin protection</b>	WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION
<b>Hand protection</b>	CHEMICAL RESISTANT GLOVES (PLASTIC)
<b>Skin protection – other</b>	WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION
<b>Respiratory protection</b>	NOT NORMALLY REQUIRED
<b>Thermal hazards</b>	NO DATA IS AVAILABLE ON THIS PRODUCT
<b>8.2.3 Environmental exposure controls</b>	NOT NORMALLY REQUIRED
<b>Occupational exposure controls</b>	NOT NORMALLY REQUIRED. USE AS APPROPRIATE.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>State</b>	LIQUID
<b>Colour</b>	PALE RED
<b>Odour</b>	CHARACTERISTIC
<b>pH</b>	11-12
<b>Melting point</b>	-2
<b>Freezing point</b>	-2
<b>Boiling point</b>	102
<b>Flash point</b>	NOT APPLICABLE
<b>Evaporation rate</b>	NOT APPLICABLE
<b>Flammability limits</b>	NOT APPLICABLE
<b>Vapour flammability</b>	NOT APPLICABLE
<b>Vapour pressure</b>	NOT APPLICABLE
<b>Vapour density</b>	NOT APPLICABLE
<b>Relative density</b>	NOT RELEVANT
<b>Fat solubility</b>	NOT APPLICABLE
<b>Partition coefficient</b>	NOT APPLICABLE
<b>Autoignition temperature</b>	325
<b>Explosive</b>	NOT APPLICABLE
<b>Oxidising</b>	NOT APPLICABLE
<b>Solubility</b>	NOT APPLICABLE

### 9.2 OTHER INFORMATION

<b>Conductivity</b>	NOT APPLICABLE
<b>Surface tension</b>	NOT APPLICABLE
<b>Gas group</b>	NOT APPLICABLE
<b>Benzene content</b>	NOT APPLICABLE
<b>Lead content</b>	NOT APPLICABLE
<b>VOC (volatile organic compounds)</b>	NOT APPLICABLE

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

	ACIDS
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### 10.2 CHEMICAL STABILITY

	STABLE UNDER NORMAL CONDITIONS
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### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

	SEE SECTION 10.1, 10.4, 10.5
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### 10.4 CONDITIONS TO AVOID

	DO NOT ALLOW TO FREEZE
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### 10.5 INCOMPATIBLE MATERIALS

	STRONG ACIDS. ALUMINIUM, Tl, ZINC AND THEIR ALLOYS
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### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

	CARBON DIOXIDE (CO <sub>2</sub> )
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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Acute toxicity</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>Skin corrosion/irritation</b>	IRRITATING TO EYES AN SKIN
<b>Serious eye damage/irritation</b>	EYE IRRIT 2:H319- CAUSES SERIOUS EYE IRRITATION.
<b>Respiratory or skin sensitisation</b>	MAY CAUSE SENSITISATION BY SKIN CONTACT.
<b>Germ cell mutagenicity</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>Carcinogenicity</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>Reproductive toxicity</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>STOT-single exposure</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.
<b>STOT-repeated exposure</b>	NO DATA IS AVAILABLE ON THIS PRODUCT.

#### 11.1.4 Toxicological Information

DERMAL RAT LD50: 200 MG/KG ORAL RAT LD50: 11700 MG/KG

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

##### Sodium Hydroxide

DAPHINA EC50/48H: 400.0000MG/L

FISH LC50/96: 33.000MG/L

#### 12.2 PERSISTENCE AND DEGRADABILITY

#### 12.3 BIOACCUMULATIVE POTENTIAL

DOES NOT BIOACCUMULATION

#### 12.4 MOBILITY IN SOIL

DO NOT LET PRODUCT CONTAMINATE SUBSOIL.

#### 12.5 RESULTS OF PBT AND VPVB ASSESSMENT

THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES CLASSIFIED AS PBT OR VPVB

#### 12.6 OTHER ADVERSE EFFECTS

NO DATA IS AVAILABLE ON THIS PRODUCT.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

DISCHARGE USED SOLUTIONS TO DRAIN. SMALL AMOUNTS (LESS THAN 5 LITRES) OF UNWANTED PRODUCT MAY BE FLUSHED WITH WATER TO SEWER. LARGE VOLUMES MUST BE SENT FOR DISPOSAL AS SPECIAL WASTE. RINSE OUT EMPTY CONTAINER WITH WATER AND CONSIGN TO NORMAL WASTE.

#### GENERAL INFORMATION

#### DISPOSAL METHODS

LOCAL AND NATIONAL REGULATIONS. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.

#### DISPOSAL OF PACKAGING

EMPTY CONTAINERS CAN BE CLEANED WITH WATER. EMPTY CONTAINERS CAN BE SENT FOR DISPOSAL OR RECYCLING.

### SECTION 14: TRANSPORT INFORMATION

#### Hazard pictograms



#### 14.1. UN NUMBER

1824

**14.2. UN PROPER SHIPPING NAME**

	SODIUM HYDROXIDE, SOLUTION
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**14.3. TRANSPORT HAZARD CLASS(ES)**

<b>ADR/RID</b>	8 CORROSIVE SUBSTANCE
<b>IMDG</b>	8 CORROSIVE SUBSTANCE
<b>ICAO</b>	8 CORROSIVE SUBSTANCE

**14.4. PACKING GROUP**

<b>ADR/RID</b>	11
<b>IMDG</b>	11
<b>ICAO</b>	11

**14.5. ENVIRONMENTAL HAZARDS**

<b>Environmental hazard</b>	No
<b>Marine pollutant</b>	No

**SECTION 15: REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

<b>Regulations</b>	COMMISSION REGULATION (EU) No 453/2010 OF 20 MAY 2010 AMENDING REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICAL AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No 793/93 AND COMMISSION REGULATION (EC) No 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVE 91/155/EEC, 93/67/EEC, 93/105/EC AND 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 DECEMBER 2006 CONCERNING THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH) ESTABLISHING A EUROPEAN CHEMICAL AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No 793/93 AND COMMISSION REGULATION (EC) No 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVES 91/155/EEC, 93/67/EEC AND 2000/21/EC
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**15.2 CHEMICAL SAFETY ASSESSMENT**

	NO DATA IS AVAILABLE ON THIS PRODUCT
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**SECTION 16: OTHER INFORMATION****OTHER INFORMATION**

<b>Text of risk phrases in Section 3</b>	H314-CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
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**GENERAL INFORMATION**



	THIS INFORMATION IS CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AT THE DATE OF PUBLICATION HOWEVER NO GUARANTEE IS MADE TO ITS ACCURACY.
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**FURTHER INFORMATION**

	<p>The information contained in this data sheet is, to the best of our knowledge and belief, accurate and is based upon our technical knowledge of the product and the date of issue. No warranty or representation, express or implied, is made as to its accuracy, reliability or completeness.</p> <p>PROTON LTD WILL NOT BE RESPONSIBLE FOR ANY DAMAGE OR INJURY RESULTING FROM ANY INHERENT HAZARD OF THE MATERIAL, THE ABNORMAL USE OF THE MATERIAL OR FROM FAILURE TO ADHERE TO RECOMMENDATION.</p>
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