



## SAFETY DATA SHEET POWERCLEAN

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

#### 1.1. Product identifier

Product name                      POWERCLEAN  
Product No.                        D488

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

**Identified uses**                      A highly concentrated alkaline cleaner designed for many different types of cleaning jobs, ranging from the cleaning of small appliances to removal of grease from floors and industrial machinery. Powerclean is suitable for cleaning concrete, linoleum, ceramic tiles, painted walls, restaurant kitchen floors, vinyl surfaces, oven hoods and any washable surface subject to pre-testing.

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

**Supplier**                              Prochem Europe Ltd  
Oakcroft Road  
Chessington  
Surrey  
KT9 1RH  
Telephone: 020 8974 1515  
Fax: 020 8974 1511  
www.prochem.co.uk  
sales@prochem.co.uk

#### 1.4. Emergency telephone number

020 8974 1515 (office hours 8am to 5pm Monday to Friday)    Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department, who may seek advice from the UK National Poisons Information Service, where our full product details are held.

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

**Classification (1999/45/EEC)**                      Xi;R36.

##### Human health

Irritating to eyes. Prolonged skin contact may cause temporary irritation. May aggravate an existing condition. Inhalation may cause: Irritation of nose and throat. Ingestion may cause: Nausea, vomiting, irritation of mouth and throat. Systemic Effects

##### Environment

The product is expected to be biodegradable.

#### 2.2. Label elements

##### Labelling



Irritant

##### Risk Phrases

R36

Irritating to eyes.

##### Safety Phrases

S2

Keep out of the reach of children.

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37

Wear suitable gloves.

#### 2.3. Other hazards

See section 8 for details of exposure limits.

**POWERCLEAN**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

<b>(2-METHOXYMETHYLETHOXY)PROPANOL</b>		<b>5-15%</b>
<b>CAS-No.: 34590-94-8</b>	<b>EC No.: 252-104-2</b>	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
<b>TETRASODIUM ETHYLENE DIAMINE TETRAACETATE</b>		<b>1-5%</b>
<b>CAS-No.: 64-02-8</b>	<b>EC No.: 200-573-9</b>	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22 Xi;R41	
<b>ALCOHOLS, C7-21 ETHOXYLATED</b>		<b>1-5%</b>
<b>CAS-No.: 68991-48-0</b>	<b>EC No.:</b>	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318	Classification (67/548/EEC) Xi;R38,R41.	
<b>TRISODIUM ORTHOPHOSPHATE</b>		<b>1-5%</b>
<b>CAS-No.: 10101-89-0</b>	<b>EC No.:</b>	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	Classification (67/548/EEC) Xi;R36/37/38.	
<b>DISODIUM METASILICATE</b>		<b>1-5%</b>
<b>CAS-No.: 6834-92-0</b>	<b>EC No.: 229-912-9</b>	
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335	Classification (67/548/EEC) C;R34 Xi;R37	
<b>QUATERNARY ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE</b>		<b>0.1-1%</b>
<b>CAS-No.:</b>	<b>EC No.:</b>	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	Classification (67/548/EEC) Xn;R22. Xi;R38,R41. N;R50.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****Inhalation**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion**

Immediately rinse mouth and drink plenty of water (200-300 ml). Never give liquid to an unconscious person. **DO NOT INDUCE VOMITING!** Get medical attention.

**Skin contact**

Flush skin thoroughly with water. Get medical attention if irritation persists after washing.

**Eye contact**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation persists after washing.

**4.2. Most important symptoms and effects, both acute and delayed****Skin contact**

Prolonged or repeated exposure may cause: Defatting, drying and cracking of skin.

**Eye contact**

Irritating to eyes. May cause possible injury if not promptly rinsed.

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

Treat Symptomatically. If swallowed: Get medical attention. Rinse the eye with water immediately.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Extinguishing media**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Water spray, dry powder or carbon dioxide.

**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

**5.3. Advice for firefighters****Protective equipment for fire-fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet.

**6.2. Environmental precautions**

Do not discharge onto the ground or into water courses.

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

Collect with absorbent, non-combustible material into suitable containers. Dispose of waste and residues in accordance with local authority requirements.

**6.4. Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Wear protective clothing as described in Section 8 of this safety data sheet. Wash hands after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product.

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

Store in closed original container at temperatures between 5°C and 30°C. Keep out of the reach of children.

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

The identified uses for this product are detailed in Section 1.2.

# POWERCLEAN

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
(2-METHOXYMETHYLETHOXY)PROPANOL	WEL	50 ppm	308 mg/m <sup>3</sup>			Sk
DISODIUM METASILICATE	SUP				2 mg/m <sup>3</sup>	SUP = Supplier's recommendation.

WEL = Workplace Exposure Limit.  
 Sk = Can be absorbed through skin.

### 8.2. Exposure controls

#### Protective equipment



#### Engineering measures

Provide adequate ventilation.

#### Respiratory equipment

For situations where recommended exposure limits may be exceeded or where there is a risk of inhalation of fine spray mists, a suitable respirator face mask is recommended.

#### Hand protection

Nitrile gloves are recommended. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

#### Eye protection

Side shield safety glasses are recommended when handling concentrate or during spray application.

#### Hygiene measures

Wash hands after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Dark. Blue.
<b>Odour</b>	Pine Mint
<b>Solubility</b>	Soluble in water.
<b>Initial boiling point and boiling range</b>	100°C
<b>Melting point (°C)</b>	Not determined.
<b>Relative density</b>	1.05
<b>Vapour density (air=1)</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>pH-Value, Conc. Solution</b>	13
<b>pH-Value, Diluted Solution</b>	12
<b>Viscosity</b>	Not determined.
<b>Odour Threshold, Lower</b>	Not determined.
<b>Odour Threshold, Upper</b>	Not determined.
<b>Flash point</b>	Not applicable.

**Auto Ignition Temperature (°C)**

Not determined.

**Flammability Limit - Lower(%)**

Not applicable.

**Flammability Limit - Upper(%)**

Not applicable.

**Partition Coefficient  
(N-Octanol/Water)**

Not determined.

**Explosive properties**

Not applicable.

**Oxidising properties**

Not applicable.

**9.2. Other information**

None.

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not determined.

**10.4. Conditions to avoid**

Protect from freezing and direct sunlight. Store in closed original container at temperatures between 5°C and 30°C.

**10.5. Incompatible materials****Materials To Avoid**

Strong acids. Oxidising materials.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity:**

Ingestion may cause: Systemic Effects Nausea, vomiting. May cause burns in mucous membranes, throat, oesophagus and stomach. Possible respiratory irritation by wetting agents in atomised spray form.

**Skin Corrosion/Irritation:**

Prolonged or repeated exposure may cause: skin irritation and dermatitis. Product has a defatting effect on skin.

**Serious eye damage/irritation:**

Contact with concentrate May cause severe irritation to eyes. May cause possible injury if not promptly rinsed. May cause blurred vision and serious eye damage.

**Respiratory or skin sensitisation:**

Contains Hexyl cinnamal Benzyl benzoate

**Germ cell mutagenicity:**

No effects expected based upon current data.

**Carcinogenicity:**

No effects expected based upon current data.

**Reproductive Toxicity:**

No effects expected based upon current data.

**Toxicological information on ingredients.**

**POWERCLEAN**  
**DISODIUM METASILICATE (CAS: 6834-92-0)**

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**

1280 mg/kg Rat

**TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)**

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**

> 1740 mg/kg Rat

**(2-METHOXYMETHYLETHOXY)PROPANOL (CAS: 34590-94-8)**

**Acute toxicity:**

**Acute Toxicity (Oral LD50)**

5135 mg/kg Rat

**Acute Toxicity (Dermal LD50)**

> 20 mg/kg Rabbit

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Ecological information on ingredients.**

**DISODIUM METASILICATE (CAS: 6834-92-0)**

**Acute Toxicity - Fish**

LC50 96 hours 3185 mg/l

**Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 4857 mg/l Daphnia magna

**TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)**

**LC 50, 96 Hrs, Fish mg/l**

> 100

**EC 50, 48 Hrs, Daphnia, mg/l**

> 100

**IC 50, 72 Hrs, Algae, mg/l**

> 100

**TRISODIUM ORTHOPHOSPHATE (CAS: 10101-89-0)**

**Acute Toxicity - Fish**

LC50 96 hours 150 mg/l Poecilia reticulata (Guppy)

**(2-METHOXYMETHYLETHOXY)PROPANOL (CAS: 34590-94-8)**

**LC 50, 96 Hrs, Fish mg/l**

>10000

**EC 50, 48 Hrs, Daphnia, mg/l**

1919

**IC 50, 72 Hrs, Algae, mg/l**

>969

**12.2. Persistence and degradability**

**Degradability**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Ecological information on ingredients.**

**(2-METHOXYMETHYLETHOXY)PROPANOL (CAS: 34590-94-8)**

**Chemical Oxygen Demand**

2.02

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**

Not known.

**Partition coefficient**

Not determined.

**12.4. Mobility in soil**

**Mobility:**

The product is soluble in water.

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

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number**

Not classified for transportation.

**14.2. UN proper shipping name**

None.

**14.3. Transport hazard class(es)**

None.

**ADR/RID/ADN Class** -

**IMDG Class** -

**14.4. Packing group**

None.

**14.5. Environmental hazards**

**Environmentally Hazardous Substance/Marine Pollutant**

No.

**14.6. Special precautions for user**

None.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

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

**Uk Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

**EU Legislation**

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 Chemicals 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, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION****General information**

Telephone 020 8974 1515

**Revision Date** 21/11/2012

**Revision** 1

**Signature** Aaron Saunders

**Risk Phrases In Full**

R34 Causes burns.  
R22 Harmful if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R36 Irritating to eyes.  
R37 Irritating to respiratory system.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R50 Very toxic to aquatic organisms.

**Hazard Statements In Full**

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H302 Harmful if swallowed.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.

**Disclaimer**

For additional information on safety, training and use of this product, contact the supplier. This product is intended for professional use only. The information given is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any guarantee as to the intended use.