SAFETY DATA SHEET
POWERCLEAN

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name            POWERCLEAN
Product number          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                 www.prochem.co.uk
                        Prochem Europe Ltd
                        Oakcroft Road
                        Chessington
                        Surrey
                        KT9 1RH

                        Telephone: 020 8974 1515
                        Fax: 020 8974 1511
                        sales@prochem.co.uk

1.4. Emergency telephone number
Emergency telephone      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
Health hazards            Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards     Not Classified

Human health             Causes severe skin burns and eye damage. May aggravate an existing condition. Inhalation may cause: Irritation of nose, throat and airway. Ingestion may cause: Nausea, vomiting, irritation of mouth and throat. systemic effects May cause chemical burns in mouth and throat.

Environmental            The product is expected to be biodegradable.
Physicochemical          May be corrosive to metals.
2.2. Label elements

Pictogram

Danger

Signal word

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P102 Keep out of reach of children.
P260 Do not breathe spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P310 Immediately call a POISON CENTER/doctor.
P390 Absorb spillage to prevent material damage.

Contains

Alcohols, C9-11, ethoxylated, Trisodium orthophosphate, Disodium metasilicate

Detergent labelling

< 5% anionic surfactants,< 5% non-ionic surfactants,< 5% perfumes,< 5% phosphates,Contains Hexyl cinnamal, Benzyl benzoate

2.3. Other hazards

See section 8 for details of exposure limits.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2-Methoxymethylethoxy)propanol</td>
<td>5-10%</td>
<td>34590-94-8</td>
<td>252-104-2</td>
<td>01-2119450011-60-XXXX</td>
</tr>
</tbody>
</table>

Substance with a Community workplace exposure limit.

Classification
Not Classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>CAS number</th>
<th>EC number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>1-5%</td>
<td>68439-46-3</td>
<td>614-482-0</td>
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</tbody>
</table>

Classification
Eye Dam. 1 - H318
POWERCLEAN

<table>
<thead>
<tr>
<th>Trisodium orthophosphate</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 10101-89-0</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disodium metasilicate</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 6834-92-0</td>
<td></td>
</tr>
<tr>
<td>EC number: 229-912-9</td>
<td></td>
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<tr>
<td>REACH registration number: 01-211949811-37-XXXX</td>
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<tr>
<td>Classification</td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1B - H314</td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
</tbody>
</table>

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 affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion
Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention.

Skin contact
Rinse immediately with plenty of water. Get medical attention if irritation persists after washing.

Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

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

Skin contact
Causes severe burns. Defatting, drying and cracking of skin.

Eye contact
Causes serious eye damage.

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

Specific treatments
Treat symptomatically. If liquid has entered the eyes, proceed as follows. Rinse immediately with plenty of water. If swallowed: Get medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Water spray, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Specific hazards
No unusual fire or explosion hazards noted.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Oxides of carbon.
POWERCLEAN

Special protective equipment
for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
Environmental precautions
Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections
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
Usage precautions
Wear protective clothing as described in Section 8 of this safety data sheet. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
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)
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
Occupational exposure limits
(2-Methoxymethylethoxy)propanol
Long-term exposure limit (8-hour TWA): WEL 50 ppm  308 mg/m³ Sk
Disodium metasilicate
Short-term exposure limit (15-minute): SUP  2 mg/m³
SUP = Supplier's recommendation.
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

8.2. Exposure controls
Protective equipment

Appropriate engineering controls
Provide adequate ventilation.
POWERCLEAN

Eye/face protection
Side shield safety glasses are recommended when handling concentrate or during spray application.

Hand protection
Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

Hygiene measures
Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Respiratory protection
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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Dark. Blue.</td>
</tr>
<tr>
<td>Odour</td>
<td>Pine. Mint.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): 13 pH (diluted solution): 12</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.05</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

9.2. Other information
Other information
None.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended.
POWERCLEAN

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

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

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects 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 Causes severe burns., Defatting, drying and cracking of skin.

Serious eye damage/irritation Causes serious eye damage. May cause possible injury if not promptly rinsed.

Skin sensitisation Contains Hexyl cinnamal Benzyl benzoate

Germ cell mutagenicity No effects expected based upon current data.

Genotoxicity - in vivo No effects expected based upon current data.

Carcinogenicity No effects expected based upon current data.

Reproductive toxicity No effects expected based upon current data.

Reproductive toxicity - fertility

Toxicological information on ingredients.

Disodium metasilicate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,280.0

Species Rat

SECTION 12: Ecological information

12.1. Toxicity

Ecological information on ingredients.

Trisodium orthophosphate
POWERCLEAN

**Acute toxicity - fish**
- LC50, 96 hours, 96 hours: 150 mg/l, Poecilia reticulata (Guppy)
- LC₅₀, 96 hours: >100 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates**
- EC₅₀, 48 hours: >100 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**
- EC₅₀, 72 hours: >100 mg/l, Desmodesmus subspicatus

Disodium metasilicate

**Acute toxicity - fish**
- LC50, 96 hours: 210 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates**
- EC₅₀, 48 hours: 1700 mg/l, Daphnia magna

12.2. Persistence and degradability

**Persistence and degradability**
The surfactant(s) contained in this product 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.

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

**Results of PBT and vPvB assessment**
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

**Other adverse effects**
The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

**Disposal methods**
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. 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

**UN No. (ADR/RID)**
- 1760

**UN No. (IMDG)**
- 1760

14.2. UN proper shipping name

Corrosive liquid, N.O.S. (contains disodium trioxosilicate and N,N-bis(carboxymethyl)-alanin, trisodium salt)

14.3. Transport hazard class(es)

**ADR/RID class**
- 8
POWERCLEAN

IMDG class 8

14.4. Packing group
ADR/RID packing group III
IMDG packing group III

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Supplied in accordance with "Limited Quantity" provisions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

General information
Telephone 020 8974 1515

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date
02/06/2016

Revision
4

Supersedes date
12/05/2015

Signature
Aaron Saunders

Please note:
Where abbreviations have been used elsewhere the full text has been written below, for the classification of the product please refer to section 2.

Hazard statements in full
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
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.