



Product Specification &

SAFETY DATA SHEET

CHIP / EC FORMAT (EC) 1907/2006



D488

POWERCLEAN

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

Product Name: POWERCLEAN **Product Code:** D488
Manufacturer: Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No (office hours 8am to 5pm, Monday to Friday only): 020 8974 1515 (UK) +44 20 8974 1515 (EC) Chemical Product Manager E, H & S Website: www.prochem.co.uk Email: sales@prochem.co.uk
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.

Product Description & Directions For Use:

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.

Always pre-test surface with diluted solution before proceeding.

Not recommended for use on aluminium, wood, carpet, fabric and polished or delicate surfaces. Use with caution on painted surfaces and plastics.

Light cleaning: Dilute 10 to 30ml Powerclean per litre of hot water (1 to 50).

General cleaning: Dilute 30 to 60ml Powerclean per litre of hot water (1 to 25).

Heavy duty: Dilute up to 250ml Powerclean per litre of hot water for fire restoration and degreasing (1 to 4).

Apply solution by sprayer or applicator, then scrub to remove soil.

Rinse surface thoroughly with clean water or Prochem acidic rinse solution.

SECTION 2: HAZARDS IDENTIFICATION

Classification: Irritating to eyes.

Eye Contact: Contact with concentrate may cause eye irritation.

Skin Contact: Prolonged or repeated contact with concentrate may cause temporary irritation and may aggravate an existing condition.

Inhalation: Breathing spray may cause temporary irritation of the nose and throat.

Ingestion: Ingestion of concentrate may produce nausea, irritation and possible systemic effects.

Environment: Raw materials are biodegradable. See Ecological Information for further details.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	RISK (See Section 16)	EINECS NO.	CAS NO.	% W/W (EC RANGE)
(2-methoxymethylethoxy)propanol	None	252-104-2	34590-94-8	5 to 15%
Tetrasodium ethylenediaminetetraacetate	Xn R22 Xi R41	200-573-9	64-02-8	Less than 5%
Alcohols, C7-21 ethoxylated	Xi R38 R41	None	68991-48-0	Less than 5%
Trisodium orthophosphate	Xi R36/37/38	231-509-8	7601-54-9	Less than 5%
Disodium metasilicate	C R34 Xi R37	229-912-9	6834-92-0	Less than 5%
Quaternary alkyl methyl amine ethoxylate methyl chloride	Xn R22 Xi R38 R41 N R50	None	61791-10-4	Less than 5%

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush immediately with water for 15 minutes, then seek medical attention.

Skin Contact: Flush skin with plenty of water. Seek medical attention if any skin irritation persists.

Inhalation: Get fresh air and seek medical assistance if breathing irritation persists.

Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Product is not flammable. Use water, carbon dioxide, dry powder extinguisher, or other media appropriate for materials actually involved in fire.

Fire/Explosion Hazards: No explosion hazard.

Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.

Special Protective Equipment: Self contained breathing apparatus for large amounts involved in fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Protective clothing, nitrile rubber gloves, chemical splash goggles.

Containment and Disposal: Large spills should be treated with dry absorbent and disposed at legal waste disposal site. Small spills can be flushed with water to sewage drain linked to waste treatment facility.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Wear nitrile rubber gloves and safety glasses when handling concentrate.

Storage Precautions: Avoid extremes of temperature. Keep out of reach of children. Keep in original container.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: (2-methoxymethylethoxy)propanol (IOELV) WEL-LTEL 50ppm (308mg/m³) (Sk).
 Disodium metasilicate suggested WEL-STEL 2mg/m³.

Environmental Controls: For additional guidance, contact ENVIROWISE at www.envirowise.gov.uk or telephone 0800 585794

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

Protective Clothing: Standard work clothing and nitrile rubber gloves. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

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 fine particle dust mask is recommended.

Ventilation: Normal air circulation. Allow adequate ventilation in enclosed areas.

Hygiene: Wash hands and clothing after use or spill. Do not eat or drink when handling chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Colour/State: Low foam clear dark blue liquid

Odour: Pine and mint.

pH Concentrate: 12.5 **pH Diluted:** 12

Boiling Point / Range °C: 100

Flash Point °C: None **Method:** Not applicable

Flammability Limit %: Not applicable

Explosive Properties: Not applicable

Oxidising Properties: Not applicable

Vapour Pressure: Not determined

Relative Density (Water = 1): 1.05 **Solubility:** 100%

Partition Coefficient (N-octanol / Water): Not determined

Viscosity: Not determined

Vapour Density: Not determined

Evaporation Rate: Not determined

% Active: 26

% Solids: 17

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Extremes of temperature.

Incompatibility (Materials to Avoid): Strong acids and oxidising agents.

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Contact: Contact with concentrate may produce moderate transient eye irritation and possible injury if not promptly rinsed.

Skin Contact: Prolonged or repeated contact may cause temporary irritation, defatting and dermatitis.

Inhalation: Possible respiratory irritation by wetting agents in atomised spray form.

Ingestion: Product is alkaline and may be mildly corrosive to mucous membranes. Possible systemic effects.

Acute and Chronic Effects:

Acute Toxicity: LD50 >3500mg/kg (oral-rat)

[(2-methoxymethylethoxy)propanol]

LD50 20mg/l (dermal-rabbit) [(2-methoxymethylethoxy)propanol]

LC50 7h >500ppm (inhalation-rat)

[(2-methoxymethylethoxy)propanol]

LD50 >1740mg/kg (oral-rat) (tetrasodium ethylenediaminetetraacetate)

LD50 600-1350mg/kg (oral-rat) (disodium metasilicate)

LD50 770mg/kg (oral-mouse) (disodium metasilicate)

Corrosivity / Irritation: Skin, eye and respiratory

Sensitisation: This product contains hexyl cinnamal and benzyl benzoate.

Repeated Dose Toxicity: Not established

Mutagenicity: None

Carcinogenicity: None

Teratogenicity: None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: EC50 48h 1919mg/l (daphnia)

[(2-methoxymethylethoxy)propanol]

LC50 96h >10000mg/l (goldfish)

[(2-methoxymethylethoxy)propanol]

EC50 96h >969mg/l (green algae)

[(2-methoxymethylethoxy)propanol]

LC50 96h >100mg/l (fish) (tetrasodium

ethylenediaminetetraacetate)

LC50 24h >500mg/l (daphnia) (tetrasodium

ethylenediaminetetraacetate)

LC50 96h 150mg/l (guppy) (trisodium orthophosphate)

Mobility: Soluble in water.

Persistence and Degradability: The surfactant(s) contained in this preparation 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.

The major packaging materials of polyethylene and fibreboard are recyclable.

Bioaccumulative Potential: Not known.

Other Effects: None known or no relevant data available for substances in this preparation.

SECTION 13: DISPOSAL CONSIDERATIONS

Cleaning waste effluent should be disposed of in accordance with regional and national requirements. Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site. Contact local Environment Agency office for waste holder requirements.

SECTION 14: TRANSPORT INFORMATION

UN No: None

Classification: Not classified as hazardous for transport

Proper Shipping Name: None

Packing Group: None

Road (ADR): None

Sea (IMDG): None

Air (ICAO / IATA): None

Rail (RID): None

SECTION 15: REGULATORY INFORMATION

Classification: Xi 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.

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 4) 2009** (as amended), the **REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH) REGULATIONS** (as amended), the **CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) 2002** (as amended), **REGULATION (EC) NO. 648/2004 ON DETERGENTS** (as amended) and the **MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS 1999** (as amended). This safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety regulations.

SECTION 16: OTHER INFORMATION

Risk Phrases for ingredients in section 3: R22 Harmful if swallowed. R34 Causes burns. 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. 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.

Revisions: Replaces SDS D488 Issue / Revision Date 22/09/09 Revised Sections: 1, 3, 6, 7, 8, 16.