



## B198

# RUST REMOVER

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

**Product Name:** RUST REMOVER      **Product Code:** B198  
**Manufacturer:** Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No (office hours 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:**

An economical acidic gel for the removal of rust, iron mould and old blood stains on carpet and fabric.  
 Rust Remover is ready-to-use. Shake before using. Always pre-test fibres and fabrics in an inconspicuous location for suitability and colour fastness. Some fabrics and dyes may be sensitive to mild acids.  
 Apply Rust Remover directly to the rust spot. Avoid over-application.  
 Allow several minutes contact time. Agitate gently during this time with a brush or scraper.  
 Blot and extract area thoroughly with clear water. Repeat steps above if necessary. Groom carpet or fabric to align fibres.  
 Note: Old rust spots will require longer contact time than fresh rust spots. Agitation speeds rust spot removal. Thorough extraction will prevent re-appearance of rust spot.

### SECTION 2: HAZARDS IDENTIFICATION

**Classification:** Irritating to eyes and skin.  
**Eye Contact:** Contact may cause moderate to severe eye irritation.  
**Skin Contact:** Prolonged or repeated contact with concentrate may cause irritation and possible dermatitis.  
**Inhalation:** None expected during normal use. Excessive inhalation may cause breathing irritation.  
**Ingestion:** Ingestion may produce nausea, vomiting and diarrhoea.  
**Environment:** 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)
Urea hydrochloride	Xn R22 Xi R36/38	208-059-6	506-89-8	Less than 5%
Orthophosphoric acid	C R34	231-633-2	7664-38-2	Less than 5%
2-(2-butoxyethoxy)ethanol	Xi R36	203-961-6	112-34-5	Less than 5%
Glycolic acid	C R34 Xn R22	201-180-5	79-14-1	Less than 5%

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Flush immediately with water for 15 minutes, then seek medical attention.  
**Skin Contact:** Wash skin with plenty of soap and 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, rinse mouth with water, then give plenty of water to drink and seek medical attention. Do not give anything by mouth if patient is unconscious.

### 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:** May react with metals to produce hydrogen gas. Will react with oxidising agents such as sodium hypochlorite to produce noxious gases.  
**Decomposition Products:** Exposure to fire may liberate carbon dioxide, carbon monoxide, phosphorous oxides, 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 a fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Protection:** Protective clothing, nitrile butyl rubber gloves, chemical splash goggles, ensure good ventilation.  
**Containment and Disposal:** Large spills should be treated with dry absorbent and disposed of at a 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 butyl 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:** Orthophosphoric acid (IOELV) WEL-LTEL 1mg/m<sup>3</sup> WEL-STEL 2mg/m<sup>3</sup>  
 2-(2-butoxyethoxy)ethanol (IOELV) WEL-LTEL 10ppm WEL-STEL 15ppm.

**Environmental Controls:** For additional guidance, contact ENVIROWISE at [www.envirowise.gov.uk](http://www.envirowise.gov.uk) or telephone 0800 585794

**Eye Protection:** Side shield safety glasses are recommended when handling concentrate.

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

**Respiratory Protection:** Not required during normal use.

**Ventilation:** Ensure good 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:** Clear yellow tint viscous liquid

**Odour:** Winterfresh

**pH Concentrate:** 1 **pH Diluted:** Not applicable

**Boiling Point / Range °C:** Not applicable

**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):** 1.032

**Solubility:** Not determined

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

**Viscosity:** Not determined

**Vapour Density:** Not determined

**Evaporation Rate:** Not determined

**% Active:** 16.89

**% Solids:** Not applicable

#### **SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable.

**Conditions to Avoid:** Extremes of temperature.

**Incompatibility (Materials to Avoid):** Oxidising agents, metals and strong alkalis.

**Hazardous Decomposition Products:** Exposure to fire may liberate carbon dioxide, carbon monoxide, phosphorous oxides, water and other unidentified thermal decomposition products from this product or its packaging. May react with metals to produce hydrogen gas.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Eye Contact:** Contact may produce irritation and possible tissue damage if not promptly rinsed.

**Skin Contact:** Contact may cause irritation and possible dermatitis.

**Inhalation:** No health effects expected in normal use. Possible respiratory irritation if exposed to large amounts.

**Ingestion:** Product is mildly corrosive to mucous membranes. Possible nervous system effects.

**Acute and Chronic Effects:**

**Acute Toxicity:** LD50 1121mg/kg (oral-rat) (urea hydrochloride)

LD50 1530mg/kg (oral-rat) (orthophosphoric acid)

LD50 2740mg/kg (dermal-rabbit) (orthophosphoric acid)

LD50 6600mg/kg (oral-rat) (2-(2-(butoxyethoxy)ethanol)

LD50 1938mg/Kg (oral-rat) (glycolic acid)

**Corrosivity / Irritation:** Skin, eye and respiratory

**Sensitisation:** None Known

**Repeated Dose Toxicity:** Not established

**Mutagenicity:** None

**Carcinogenicity:** None

**Teratogenicity:** None

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** LC50 24h 2700mg/l (goldfish) (2-(2-butoxyethoxy)ethanol)

EC50 48h >1000mg/l (daphnia) (2-(2-butoxyethoxy)ethanol)

LC50 96h 164mg/l (fathead minnow) (glycolic acid)

LC50 48h 141mg/l (daphnia) (glycolic acid)

**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:** Does not bioaccumulate.

**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**

R36/38 Irritating to eyes and skin.

**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 3) 2002** (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:** R22 Harmful if swallowed. R34 Causes burns.

R36 Irritating to eyes. R38 Irritating to skin.

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 B198 Issue / Revision Date 01/11/04  
Revised Sections: 1, 2, 3, 4, 5, 8, 10, 11, 12, 13, 15.