

The logo for Prochem, featuring the word "PROCHEM" in white, bold, sans-serif capital letters on a blue rectangular background.

SAFETY DATA SHEET RUST REMOVER

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

1.1. Product identifier

Product name RUST REMOVER

Product number B198

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

Identified uses A specially formulated acidic gel for the removal of rust, iron mould and old blood stains on carpet and fabric.

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 (office hours 8am to 5pm Monday to Friday)
Fax: 020 8974 1511
sales@prochem.co.uk

1.4. Emergency telephone number

Emergency telephone 24 hr emergency number +44 1235 239670.
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. For Republic of Ireland contact the NPIC: 01 837 9964 or 01 809 2566.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Met. Corr. 1 - H290

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Not Classified

Human health Causes serious eye damage. Irritating to skin. Considered to be a low inhalation hazard at normal workplace temperatures. In high concentrations, vapours may be irritating to the respiratory system. Ingestion may cause: Nausea, vomiting, Diarrhoea. May cause chemical burns in mouth and throat.

Environmental The product is expected to be biodegradable.

2.2. Label elements

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Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 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.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P390 Absorb spillage to prevent material damage.

Contains

Urea hydrochloride, Phosphoric acid ...%

Detergent labelling

< 5% perfumes, Contains DMDM Hydantoin, Iodopropynyl butylcarbamate

2.3. Other hazards

See section 8 for details of exposure limits.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Urea hydrochloride

5-10%

CAS number: 506-89-8

Classification

Met. Corr. 1 - H290
 Acute Tox. 4 - H302
 Skin Irrit. 2 - H315
 Eye Dam. 1 - H318
 STOT SE 3 - H335

Phosphoric acid ...%

1-5%

CAS number: 7664-38-2

EC number: 231-633-2

Classification

Met. Corr. 1 - H290
 Acute Tox. 4 - H302
 Skin Corr. 1B - H314
 Eye Dam. 1 - H318

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(2-Methoxymethylethoxy)propanol **1-5%**

CAS number: 34590-94-8

EC number: 252-104-2

REACH registration number: 01-2119450011-60-XXXX

Substance with a Community workplace exposure limit.

Classification

Not Classified

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	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
Skin contact	Wash skin thoroughly with soap and 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

Ingestion	May cause discomfort if swallowed. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Risk of serious damage to eyes.

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

Specific treatments	If liquid has entered the eyes, proceed as follows. Rinse immediately with plenty of water. Get medical attention. Wash promptly if skin becomes contaminated. If swallowed: Get medical attention.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with the following media: Water spray, dry powder or carbon dioxide.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air. Will react with oxidising agents such as sodium hypochlorite to produce noxious gases.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Phosphorus oxides.

5.3. Advice for firefighters

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

Phosphoric acid ...%

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

(2-Methoxymethylethoxy)propanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Side shield safety glasses are recommended when handling this product.

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.

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Respiratory protection Not required in normal use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Clear liquid. Yellow.
Odour	Winterfresh
Odour threshold	Not determined.
pH	pH (concentrated solution): 1
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.032
Solubility(ies)	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Will react with oxidising agents such as sodium hypochlorite to produce noxious gases.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.

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

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Materials to avoid Strong oxidising agents. Strong alkalis.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Ingestion may cause: systemic effects Central nervous system depression. Nausea, vomiting. Diarrhoea. May cause chemical burns in mouth and throat. Considered to be a low inhalation hazard at normal workplace temperatures. In high concentrations, vapours may be irritating to the respiratory system.

Acute toxicity - oral

ATE oral (mg/kg) 4,184.86

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation May cause severe eye irritation. May cause permanent damage if eye is not immediately irrigated.

Skin sensitisation

Skin sensitisation None known.

Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity No effects expected based upon current data.

Reproductive toxicity

Reproductive toxicity - fertility No effects expected based upon current data.

Toxicological information on ingredients.

Urea hydrochloride

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,121.0

Species Rat

Phosphoric acid ...%

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 301.0

Species Rat

ATE oral (mg/kg) 301.0

(2-Methoxymethylethoxy)propanol

Acute toxicity - oral

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Acute toxicity oral (LD₅₀ mg/kg) 5,135.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 20.0

Species Rabbit

SECTION 12: Ecological information

12.1. Toxicity

Ecological information on ingredients.

(2-Methoxymethylethoxy)propanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >10000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1919 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >969 mg/l, Algae

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. (Detergents (Amendment) (EU Exit) Regulations UK SI 2020/1617). 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

Chemical oxygen demand 2.02

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient Not determined.

Ecological information on ingredients.

(2-Methoxymethylethoxy)propanol

Partition coefficient : 1.01

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

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Other adverse effects None known.

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) 3265

UN No. (IMDG) 3265

14.2. UN proper shipping name

Corrosive Liquid, Acidic, Organic, N.O.S. (contains urea hydrochloride and phosphoric acid, solution)

14.3. Transport hazard class(es)

ADR/RID class 8

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 MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

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).
REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1577.
GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.
Detergents (Amendment) (EU Exit) Regulations UK SI 2020/1617.

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) (as amended).
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 (as amended).

15.2. Chemical safety assessment

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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	16/12/2020
Revision	6
Supersedes date	12/05/2015
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Signature	Aaron Saunders

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.