



SAFETY DATA SHEET

HORELEX RUST REMOVER

Product Description

Horelex Rust Remover is a free-flowing liquid preparation for removing rust from ferrous metals. Based on phosphoric acid, speciality detergents together with inhibitors and synergists. It is both fast and effective.

Directions

Use pvc or latex gloves when handling and polythene or other plastic resistant containers. Pour sufficient Horelex into a shallow tray to cover the component. This should be left for about ten minutes or longer if the part is very rusted. Remove and rinse in clean water. Dry quickly and thoroughly to prevent further oxidation.

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

1.1 Product Identifier

Product Name: Horelex Rust Remover
Composition / Ingredients: Based on Phosphoric Acid 5 – 15%

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

Acid based cleaner for dissolving rust from ferrous metals.

1.3 Details of the supplier of the safety data sheet

Supplier: John Wardle Horological Materials
Unit 6 Albany Court, Blenheim Road, Airfield Industrial
Estate, Ashbourne, Derbyshire DE6 1HA
Tel: 01335 347154
Email: sales@johnwardle.co.uk

1.4 Emergency telephone number

Emergency tel: 01335 347154 (office hours only)

SECTION 2: Hazards Identification

2.1 Classifications of the substance or mixture

According to 1272/2008

Health Hazards: Eye dam. 1, Skin Corr. 1B

Physical Hazards: Met. Corr. 1

Environmental Hazards: Not classified.

2.2 Label elements

According to 1272/2008



DANGER

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H290 May be corrosive to metals

P234 Keep only in original container

P390 Absorb spillage to prevent material damage

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.

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338. IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

SECTION 3: Composition/information on ingredients

3.2 Hazardous Ingredients

Material	CAS Number	Level	Hazards	See Section 16
Phosphoric Acid	7664-38-2	5-15%	Skin Corr. 1	H314

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Skin Contact:	Remove contaminated clothing, wash skin with soap and water. Seek medical attention immediately.
Eye Contact:	Immediately flush eyes with water, holding eyelids apart for at least 10 minutes. Seek medical assistance immediately.
Ingestion:	Do not induce vomiting. If conscious, give water to drink. Seek medical assistance immediately.
Inhalation:	If irritation occurs, remove to fresh air, keep warm and at rest, seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Skin Contact:	Causes severe burns
Eye Contact:	Will cause severe damage
Respiratory Hazard:	Not a hazard in normal use. Breathing spray mist may cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment or attention required additional to section 4.2

SECTION 5: Fire-fighting measures

Flammability hazard: Not combustible.

5.1 Extinguishing Media

No special requirements. As appropriate for the fire.

5.2 Special hazards arising from the substance or mixture

No specific hazards arising from the mixture.

5.3 Advice for fire-fighters

No special measures arising from the mixture.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take precautions to avoid contact. Use PPE as detailed in Section 8
Spillage may make floors slippery. Keep the area clear. Observe regulations.

6.2 Environmental precautions

Prevent spills from entering water courses.

6.3 Methods of material for containment and cleaning up

Small quantities, flush to foul sewer with a large quantity of water.
Large quantities, contain and absorb or pump into suitable containers for disposal.

6.4 Reference to other sections

Reference to other sections: Refer to section 8 and 13 of SDS.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Do not mix with other products. Observe good industrial hygiene.

7.2 Conditions for safe storage, including any inculpabilities

Store in a cool, dry place protected from frost and away from alkalis and strong oxidising agents. Store upright in original containers. Recommended storage temperature 5 – 25oC

7.3 Specific end use(s)

Specific end use(s): Rust remover from ferrous metals.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Phosphoric Acid 1mg/m3 WEL 8-hour TWA (UK EH40)

8.2 Exposure controls

These measures are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product The user is responsible for carrying out a full risk assessment of their specific processes and systems of work.

Respiratory protection: Not applicable.

Hand Protection: Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.

Eye Protection: Wear a full face visor to BS EN 166 39B

Skin Protection: As necessary to prevent contact.

Environmental Protection: Prevent mixture from entering water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Colourless Liquid

Odour: Mild, characteristic

Solubility in water: Miscible with water

Viscosity: Free flowing

Initial Boiling point oC 100

pH (typical): 2.2 1% in water (typical)

Flash Point: Not applicable

Optical Density: Not applicable

Relative density: @ 20oC (typical) : 1.290

Vapour pressure: 17.5mm Hg @ 20oC

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity: Incompatible with strong oxidising agents and alkalis.

10.2 Chemical stability

Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: No hazardous reactions are expected to occur.

10.4 Conditions to avoid

Conditions to avoid: Extremes of temperature.

10.5 Incompatible materials

Materials to avoid: Incompatible with strong oxidising agents and alkalis.

10.6 Hazardous decomposition products

Haz. decomp. Products: Oxides of phosphorus if heated.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

Skin Corrosion / irritation: Mixture is classified as Skin Corr. 1B (see section 2)

Serious eye damage / irritation: Mixture is classified as Eye Dam. 1. (see section 2)

Respiratory or skin sensitisation: Does not contain any ingredients classified as sensitising.

Carcinogenicity: does not contain any ingredients classified as carcinogenic.

Reproductive toxicity: does not contain any ingredients classified as toxic for reproduction.

Symptoms / routes of exposure

Skin Contact: Causes severe burns.

Eye Contact: Will cause severe damage.

Ingestion: Moderate toxicity will cause irritation and damage to gastro-intestinal tract due to Acidity.

Inhalation: Not a hazard in normal use.

SECTION 12: Ecological Information

12.1 Toxicity

May effect aquatic organisms due to low pH if released into water course untreated.

- 12.2 Persistence and degradability**
No classified as dangerous for the environment / aquatic toxicant.
- 12.3 Bio accumulative potential**
Not expected to bioaccumulate.
- 12.4 Mobility in soil**
This product has high water solubility.
- 12.5 Results of PBT and vPvB assessment**
Contains no ingredients classified as PBT or vPvB.
- 12.6 Other adverse effects**
No other adverse effects are anticipated.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Process effluent can normally be discharged to foul sewer (subject to consent limits).
Large quantities, dispose via a licensed chemical waste contractor.
Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration if permitted.

SECTION 14: Transport information

- 14.1 UN number:** 1805
- 14.2 UN proper shipping name:** Phosphoric Acid
- 14.3 Transport hazard class(es):** 8
- 14.4 Packing Group:** III
- 14.5 Environmental hazards:** Not classified as environmentally hazardous for transport

SECTION 15: Regulatory Information

- 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture**
Contents according to (EC) regulation No. 648/2004 on detergents.
- 15.2 Chemical Safety Assessment**
Chemical Safety Assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other Information

Other Information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830

Phrases used in S2 & S3:

H314:	Causes severe skin burns and eye damage
H318:	Causes serious eye damage.
H290:	May be corrosive to metals.

Legal Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. It is for users to satisfy themselves of the suitability of this product for their own applications.

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