

SAFETY DATA SHEET

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

1.1 Product identifiers

Trade Name	Description	Unit	Code
Teepol	Rust, Scale and Concrete Remover	4 x 5L	0617

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

Rapidly removes water scale, rust and concrete deposits. It is ideal for descaling boilers, heat exchangers and associated plant. It removes rust deposits and concrete from construction equipment, tools and scaffolding etc. Suitable for either soak or circulation cleaning of ferrous metals and where a minimum corrosion rate is acceptable.

1.3 Details of the supplier of the safety data sheet

Company	Teepol Products,		
Address	Harvey Waddington,	Telephone	01689 877020
	Murray Road,	Fax	01689 877027
	Orpington,	E-Mail	sales@teepol.co.uk
	Kent BR5 3QY		

1.4 Emergency telephone number +44 (0)1689 877020 (09:00 - 16:00 Monday to Friday)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Eye. Irrit. 2, H319

Skin. Irrit. 2, H315

2.2 Label elements

Signal Word: *Hazard Pictograms:*

WARNING

Hazard Statements:



H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements:

Disposal

P501 Dispose of contents/container to licensed waste disposal site.

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P337 + P313 If eye irritation persists: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Storage

P102 Keep out of reach of children.

2.3 Other hazards

EUH none None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No</u>	<u>EC-No.</u>	<u>Amount [%]</u>
Phosphoric Acid	015-011-00-6	7664-38-2	231-633-2	15-30
<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>		
Skin corrosion/irritation	Skin. Corr. 1A B C	H314 Skin corrosion/irritation		
Serious eye damage/irritation	Eye. Irrit. 2	H319 Serious eye damage/irritation		

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No</u>	<u>EC-No.</u>	<u>Amount [%]</u>
Hydrochloric Acid	017-002-00-2	7647-01-0	231-595-7	<5
<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>		
Skin corrosion/irritation	Skin. Corr. 1A B C	H314 Skin corrosion/irritation		
Serious eye damage/irritation	Eye. Irrit. 2	H319 Serious eye damage/irritation		

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Remove contaminated clothing.

After inhalation

Ensure supply of fresh air and seek medical attention.

After contact with skin

Wash splashes from skin immediately. If skin becomes sore or inflamed seek medical attention.

After contact with eyes

Irrigate with water for 10 to 15 minutes until irritation subsides. If irritation persists seek medical attention.

After ingestion:

If conscious, give plenty of water to drink, do not induce vomiting, obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Eye and skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

Rinse with clean water

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: This product is not flammable. Use fire extinguishing media appropriate for surrounding area.

5.1 Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture

May produce oxides of carbon, nitrogen, sodium and sulphur.

5.3 Advice fo Fire Fighters

Wear self-contained breathing apparatus and protective clothing as appropriate to the associated fire.

SECTION 6: ACCIDENTAL RELEASE MEAS

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate PPE. Avoid breathing vapours if any and ensure adequate ventilation. Cordon off area to other personnel.

6.2 Environmental precaution

Do not allow to enter surface water drains, soil/subsoil.

6.3 Methods and material for containment and cleaning up

Absorb with sand or binder and dispose of according to local regulations. Small spillages may be flushed to a foul drain.

6.4 Reference to Other Sections: See Section 8 and 13 for more information on exposure and disposal.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for safe handling

Provide good ventilation in working area. Wash hands after use and do not allow to enter surface water drains.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original containers out of reach of children. Storage temperature should be between 5°C and 30°C.

7.3 Specific end use(s)

Use only as directed on the container or label.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

(Hydrogen Chloride) OES: TWA 8 hours - STEL 15 mins 5ppm; (Orthophosphoric Acid) OES: TWA 8 hours - STEL 15 mins 2mg / m³

8.2 Exposure Controls

Do not eat, drink or smoke whilst working and wash hands after use.

Exposure Controls - Eyes: Avoid contact with eyes. Wear suitable eye protection if appropriate.

Exposure Controls - Skin: Wear vinyl, latex or nitrile gloves.

Exposure Controls - Respiratory Avoid breathing vapours. Provide adequate ventilation.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance / Odour Clear liquid with characteristic odour. (Method: QP22)

pH (10% soln.) <1 (Method: QP03)

Melting/freezing point: 0°C

Flammable / Flash point Not Flammable

Relative density 1.12 g/cm³ @ 20°C (Method: QP07)

Solubility: Soluble/dispersible in water

Viscosity: As water @20°C (Method: QP04)

Oxidising properties: Not applicable.

Explosive properties: Not applicable.

9.2 Other Information No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Converts at elevated temperatures (>150°C) to pyrophosphoric acid and eventually (>300°C) to metaphosphoric acid. Phosphorous pentoxide fumes may also be released.

10.2 Chemical Stability: No decomposition if stored and applied as directed.

10.3 Hazardous Reactions: Exothermic reaction with strong alkalis.

10.6 Hazardous Decomposition Products Oxides of phosphorus

10.4 Conditions to Avoid: No information available.

10.5 Incompatible Materials: None known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Substance	Toxicity
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Phosphoric Acid	Acid and some salts of suitable purity are permitted food additives. Due to acid nature, will cause burns to exposed tissue. LD50 1530mg/Kg Oral-rat. 2740mg/Kg skin-rabbit.
Hydrochloric Acid	<p>Skin Species : rabbit Result : corrosive effects</p> <p>Eyes Species : rabbit Result : corrosive effects Remarks : Risk of serious damage to eyes.</p> <p>Sensitisation Species : guinea pig Result : not sensitizing Method : Maximisation Test</p> <p>Further information Other relevant toxicity : All numerical values for acute toxicity are calculated on the pure substances. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.</p> <p>Acute toxicity Dermal Value type : LD50 Value : > 5,010 mg/kg Species : rabbit</p> <p>Irritation Skin Species : rabbit Result : corrosive effects</p> <p>Eyes Species : rabbit Result : corrosive effects Remarks : Risk of serious damage to eyes.</p> <p>Sensitisation Species : guinea pig Result : not sensitizing Method : Maximisation Test</p>

No information regarding interactions between the ingredients in this mixture is available, therefore, the information shown above is separately reported for each relevant ingredient used in the mixture even though it may be present below its concentration limit and represent no toxicity in the mixture as a whole.

SECTION 12: ECOLOGICAL INFORMATION

No specific information is available for this mixture, therefore, the following information regarding the relevant substances used in this mixture is provided, even though they may be present below the concentration limit and represent minimal or no toxicity to the environment.

Substance	ECO Toxicity
Phosphoric Acid	<p>ECOTOXICITY The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.</p> <p>MOBILITY The product is miscible with water. May spread in water systems.</p>

Hydrochloric Acid 12.1. Toxicity
Acute toxicity - Fish
Species : Oncorhynchus mykiss
Exposure Time : 96 h
Value type : LC50
Value : 7.45 mg/l
Species : Lepomis macrochirus
Exposure Time : 96 h
Value type : LC50
Value : 24.6 mg/l
Toxicity to daphnia and other aquatic invertebrates.
Species : Daphnia magna
Exposure time : 48 h
Value type : EC50
Value : 0.492 mg/l
algae
Species : Pseudokirchneriella subcapitata
Exposure time : 72 h
Value type : EC50
Value : 0.78 mg/l
12.2. Persistence and degradability
Persistence and degradability
Component: hydrochloric acid CAS-No.
7647-01-0
Persistence and degradability
Persistence
Remarks : no data available
Biodegradability
Remarks : Inorganic product which is not removable from water by biological processes.
12.3. Bioaccumulative potential
Bioaccumulation
Remarks : Bioaccumulation is not expected.
log Pow < 1
12.4. Mobility in soil
Mobility
Remarks : Not expected to adsorb on soil.
12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
Results of PBT assessment: Non-classified vPvB substance Non-classified PBT substance
12.6. Other adverse effects
Additional ecological information
Remarks : All numerical values for ecotoxicity effects are calculated on the pure substances. Harmful effects to aquatic organisms due to pH-shift. Neutralization is normally necessary before waste water is discharged into water treatment plants. Do not flush into surface water or sanitary sewer system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

When disposing of surplus or waste product use suitable PPE etc. ensuring empty containers are rinsed out and disposed of safely. Do not allow product to enter land or surface water drains. Dispose of in accordance with local authority regulations. Do not mix with other waste materials.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number: N/A

14.2 Shipping Name: Teepol Rust, Scale and Concrete Remover

14.3 Transport hazard class None

14.4 Packing group: N/A

14.5 Environmental Hazards: None

14.6 Special precautions for user:

No information

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:

No information

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environment regulation/legislation specific to the substance or mixture

EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Guidance

ECHA Guidance on the application of CLP criteria (Version 4: November 2013)

ECHA Guidance on the compilation of safety data sheets (Version 2.1: February 2014)

15.2 Chemical safety assessment

No information

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

Directions:

FOR DESCALING BOILERS, HEAT EXCHANGERS ETC:

Obtain a sample of the scale so that a bucket test can be carried out to ensure that the scale type is suitable for treatment. At the same time, assessment can be made of the concentration required to the speed of cleaning necessary. Use at a 10% dilution in water for treating the system. Dilute according to contamination and time permitted but a general guide for immersion is 1 part with 2 parts water. Always thoroughly rinse cleaned components and treat with a suitable rust preventative if required.

STEAM CLEANER DESCALING:

Use at a 10% dilution in water. Circulate around the machine according to the manufacturers instructions. Run the machine cold.

CONCRETE REMOVAL:

Immersion of equipment at a 2:1 dilution with water is the most effective, may also be used to remove excess cement from brickwork.

Further Information: The latest version of this data sheet may be obtained from the Harvey Waddington Web Site at: www.teepol.co.uk

GLOSSARY: PPE Personal protective equipment. N/A Not applicable. N/K Not known OES Occupational exposure limit
TWA Time weighted average W/V Weight to volume

The data contained in this Safety Data Sheet has been supplied for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

ANIMAL TESTING: Teepol Products (UK) do not test their finished products on animals.

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