



## MATERIALS SAFETY DATA SHEET

### 1. Product Identification

Product name: Rust Remover

Product type: Liquid

Product description: Highly effective rust remover for natural stone and porcelain

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### 2. Hazards Identification

#### 2.1 Classification of the substance according to Regulation EC n. 1272/2008

The product is not classified as dangerous –  
Skin Corr. 1A: H314  
Causes severe skin burns and eye damage

#### 2.2 Label indications

H314 causes severe skin burns and eye damage  
GHS05: Corrosion



#### 2.3 Hazards

GHS05: Corrosion  
This product is not identified as a PBT/vPvB substance

#### 2.4 Precautionary statements

Precautionary statements:  
P264: Wash hand thoroughly after handling.  
P280: Wear protective gloves/eye protection.  
P305+351+338: 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.

### 3. Composition / Information on the Ingredients

Name: ORTHOPHOSPHORIC ACID  
EINECS: 231-633-2  
CAS: 7664-38-2  
CHIP Classification: -  
CLP Classification: Skin Corr. 1B: H314  
Percent: 10- 12%



### 4. First Aid Measures

#### 4.1 Description of first aid measures

In case of contact with the skin: Wash the area with soap and water, remove dirty shoes and clothes if contact via area. Consult a doctor in case of irritation, swelling or redness persist. In case of contact with the eyes: bathe and rinse well with water for 15 minutes.

#### 4.2 Most important symptoms and effects, both acute and delayed

Main symptoms and effects both acute and delayed, see chapter 11:  
Skin contact: Redness, irritations.  
Eyes contact: Eyes irritation.  
Ingestion: There may be irritation of the throat.  
Inhalation: No symptoms.

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

Follow doctor's instructions.

### 5. Anti-Fire Measures

The product is not flammable.  
Exposure hazards: In combustion emits toxic fumes.  
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### 6. Accidental Release Measures

#### 6.1 Personal equipment, protective clothing and emergency procedures

Wear suitable protective clothes.

#### 6.2 Precautions for the environment

Do not pour down drains.



### 6.3 Methods and materials to collect and clean

Collect with absorbent materials like sand, sawdust and dispose according to proper rules.

## 7. Handling and Storage

### 7.1 Precautions for safe handle

Wear gloves, apron, mask and boots.

### 7.2 Safe warehouse

Keep container well sealed in a dry place; protect from freeze and avoid temperatures higher than 40°C. Do not keep in warehouse together with acids and strong basis.

## 8. Exposure Control and Protection

### 8.1 Protection

Since the use of suitable technical measures should be first than personal protection equipment, it's necessary to ensure a proper ventilation through the use of a good aspiration device or the polluted air discharge. If these operations do not keep product concentration under minimum exposure values, it will be necessary to wear suitable breathing apparatus protection. During use, refer to danger label for more details. Personal protective clothes must be in compliance with the rules here below indicated:

**Hands Protection:** Protect hands using working gloves, II category. (ref. Directive 89/686/CEE and Rule EN 374) like: PVC, neoprene, nitrile or equivalent. The final choice of the gloves must consider: degradation, breaking time and permeability. In case of mixtures the gloves resistance must be checked before using, it is not foreseeable. Gloves have a wear and tear term that depends on exposure time.

**Eyes Protection:** Wear sealing protective mask (ref. Rule EN 166).

**Skin Protection:** Wear long sleeves working clothes and shoes for professional use, II category. (ref. Directive CEE and EN 344 rule). Wash with plenty of water after taking protective clothes off.

**Breathing Protection:** In case of overcoming of the limit value of one or more substances present in the product, wear a mask with filter. A type or the universal type, whose class (1,2 or 3) will be chosen according to the use. (ref. EN 141 Rule). The use of breathing apparatus protections, like mask with filter for organic vapours and powders/fog, it's compulsory in absence of technical measures to limit the worker exposure. The protection given by the mask is limited anyway. If the substance is odourless or in case of emergency (unknown time of exposure or the oxygen level in the ambient is lower than 17%) wear a compressed air auto-breather at open circuit (ref. Rule EN 137) or a respirator with external air outlet for the use with whole mask, semi-mask or nozzle. (Ref. Rule EN 138). If there's the risk to get squirts or sprinkles due to the type of work performed, it's necessary to foresee a suitable mucous protection (mouth, nose, eyes) in order to avoid accidental absorptions.

### 8.2 Limits of exposure

No substance at exposure limit.

### 8.3 Exposure control, technical controls

Handle in well ventilated areas.

### 8.4 Individual protection

Wear gloves and mask, in normal use conditions no vapours is generated.

### 8.5 Environmental protection:

Avoid discharge in sewers.

Name: ORTHOPHOSPHORIC ACID...100%

State: UK

8 Hour TWA: 1 mg/m<sup>3</sup>

15 Min. Stel: 2 mg/m<sup>3</sup>

8 Hour TWA: -

15 min. STEL: -

## 9. Chemical and Physical Properties

Status: Liquid

Colour: Clear

Odour: Characteristic odour

Smelling threshold: Non-oxidising (by EC criteria)

pH: <2

Boiling point: 100°C approx.

Fusion point: ND

Flashing point: 70°C

Ignition temperature: Not determined

Vapours: Not determined

Viscosity: Non-viscous

Solubility: Soluble

## 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction in normal conditions of use.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

No dangerous reactions detected.

### 10.4 Conditions to avoid

Heat.

### 10.5 Hazardous decomposition products

Decomposition starts at temperatures higher than 150°C; in normal use conditions no decomposition is detected.



### 11. Toxicological Information

ORTHOPHOSPHORIC ACID...100%  
ORL | RAT | LD50 | 1530 Mg/kg

Relevant hazards for substance

Hazard: Skin corrosion/irritation  
Route: DRM  
Basis: Hazardous/calculated

Hazard: Serious eye damage/irritation  
Route: OPT  
Basis: Hazardous: calculated

Contact with the skin: May cause irritation and redness.  
Contact with the eyes: May be pain and redness, eyes may water profusely. There may be severe pain with vision becoming blurred. May cause permanent damage.  
Ingestion: May cause irritation to throat, nausea and stomach pain may occur.  
Inhalation: May be irritation of the throat with a feeling of tightness in the chest.

### 12. Ecological Information

There's no information on the product, so use it according to good working procedures, do not waste it in the environment. Absolutely avoid to waste product in the ground or drains. Call authorized companies if the product reaches water drains or in case of ground or flora pollution. Follow all the measures to reduce at the minimum level the effects on water drains.

**12.1 Toxicity**  
No data available.

**12.2 Persistence and degradability**  
The surfactants in this product 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 component authorities of the Member States and will be made available to them at their direct request or at the request of the detergent manufacturer.

**12.3 Potential bioaccumulative information**  
No bioaccumulation potential.

**12.4 Mobility in the ground information**  
Readily absorbed into soil.

**12.5 Results of PBT and vPvB assessment**  
This product is not identified as a PBT/vPvB substance.

**12.6 Additional effects information**  
Negligible ecotoxicity.

### 13. Disposal Considerations

**13.1 Waste handling**  
Re-use, if possible the product. Product residues must be regarded as special dangerous waste. Waste danger that contain this product must be evaluated on the basis of current rules.

**13.2 Handling**  
Must be performed by company authorized to waste handling, according to national and local current rules. Polluted Packages, Polluted packages must be recovered or wasted in compliance with National rules concerning waste management.

### 14. Transport

UN1805. Phosporic Acid, Liquid, Class 8, Packing III.

### 15. Regulatory Information

Substances SVHC: none  
Annex XVII: none

### 16. Other Information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010:

Hazard indications:

- Flam. Liq.2 Flammable liquid, cat. 2
- Acute tox.3 High toxicity, cat. 3
- STOT SE 1 Specific toxicity for target- single exposure, Cat. 1
- Flam.Liq.3 Flammable liquid, cat.3
- STOT SE 3 Specific toxicity for target-single exposure, Cat.3
- Carc. 1B Cancerogenicity, CAT 1 B
- Muta , 1B Mutagenicity on stem cells, cat. 1 B
- Asp. Tox.1 Danger in case of aspiration, cat. 1
- Acute tox.4 High toxicity, cat. 4
- STOT RE 1 Specific toxicity for target- repeated exposure, cat. 1
- Eye Irrit. 2 Eyes irritation, cat.2
- Aquatic Acute 1 Dangerous for fish fauna, high toxicity, cat.1
- Aquatic Chronic 1 Dangerous for fish fauna, high toxicity, cat.1
- H302 harmful if swallowed
- H314 causes severe skin burns and eye damage.
- H315 causes skin irritation
- H318 causes serious eye damage
- H319 Causes eye irritation
- H332 harmful if inhaled
- H335 may cause respiratory irritation
- R10 flammable
- R11 easily flammable
- R23/24/25 toxic by inhalation, skin contact, ingestion
- R36 eyes irritating
- R48/25 toxic: serious healthy damages in
- Case of long exposure by ingestion.
- R50/53 high toxic for aquatic organism,

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- At long term it may cause negative effects for fish fauna
- R65 harmful: if swallowed could cause serious damage to lungs.
- R66 continuous exposure may cause skin dryness and cracks.
- R67 vapours inhalation may cause sleepiness and giddiness.
- R68 possibility of non-reversible effects.

### General bibliography:

1. Directive 1999/45/CE and following modifications
2. Directive 67/548/CEE and following modifications
3. Regulation (CE) 1907/2006 of European Parliament (REACH)
4. Regulation (CE) 790/2009 of European Parliament (I Atp. CLP)
5. Regulation (CE) 453/2010 of European Parliament
6. The Merck Index Ed. 10
7. Handling Chemical Safety
8. Niosh- Registry of Toxic Effects of Chemicals Substances
9. INRS – Fiche Toxicologique
10. Patty- Industrial Hygiene and Toxicology
11. N.I. Sax. – Dangerous properties of Industrial Materials – 7 Ed. 1989.

### User's notes

The information herein contained have been draught on the basis of available knowledge upon data sheet version. The user must make sure of the suitability and completeness of the information referring to the specific use of the product. Do not read this document as warranty of any specific property of the product. Since the use of the product is not under our direct control, it's the user's liability respect current rules in terms of hygiene and safety. We are not held liable for unproper use.