

Tilemaster Cleaner No.4



Section 1 - Product Identification

Product name:	TileMaster Cleaner No.4
Product type:	Liquid
Product description:	Water-based solution to clean ceramic and porcelain
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Section 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:

- 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.

Section 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:	10-30%

Section 4 - First Aid Measures

4.1

First aid measured description:

- 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

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 on the eventual necessity of contacting a doctor and special treatments:

- Follow doctor's instructions.

Section 5 - Anti-Fire Measures

- 5.1**
- The product is not flammable.
- 5.2**
- Exposure hazards: In combustion emits toxic fumes.
- 5.3**
- Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 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.

Section 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.

Section 8 - Exposure Control and Protection

- 8.1**
- 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 a 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 vapors 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 vapors is generated.

8.5

Environmental protection:

- Avoid discharge in sewers.

Name: ORTHOPHOSPHORIC ACID...100%

State: UK

8 Hour TWA: 1 mg/m³

15 Min. Stel: 2 mg/m³

8 Hour TWA: -

15 min. STEL: -

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Section 9 – Chemical and Physical Properties

9.1

Status:	Liquid
Colour:	Clear
Odor:	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
Vapors:	Not determined
Viscosity:	Non-viscous
Solubility:	Soluble

Section 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

Possible dangerous 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.

Section 11 – Toxicological Information

ORTHOPHOSPHORIC ACID...100%	ORL	RAT	LD50	1530	Mg/kg
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Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	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.

Section 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 information:

- No data available.

12.2

Persistence and degradability information:

- 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 bio-accumulative information:

- No bioaccumulation potential.

12.4

Mobility in the ground information:

- Readily absorbed into soil.

12.5

Results of PBT and vPvB evaluation information:

- This product is not identified as a PBT/vPvB substance.

12.6

Additional effects information:

- Negligible ecotoxicity.

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Section 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.

Disposal:

- 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.

Section 14 - Transport

UN Number:

- UN1805. Phosphoric Acid, Liquid, Class 8, Packing III,

Section 15 - Regulatory Information

- Substances SVHC: none
- Annex XVII: none.

Section 16 - Other Information

16.1

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 SE1** Specific toxicity for target - single exposure, Cat. 1
- **Flam.Liq.3** Flammable liquid, cat.3
- **STOT SE3** 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 RE1** 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
- **R 23/24/25** 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, 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 un-proper use.

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