Steam Cleaner STP **Product name:**

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Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name: Steam Cleaner STP

Details of the producer/supplier

Address: EOS Saunatechnik GmbH

Schneiderstriesch 1 35759 Driedorf

Tel.: +49 (0) 2775 82-149

Emergency telephone number: Germany: Poison emergency centre Berlin: 030/30686-790

Please contact the regional company representation in your country

Synonyms

Solution of phosphoric acid (about 40 %) in water, inhibited against metal corrosion

2. Hazards identification

This product is a mixture. REACH Registration Number see section 3 (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1, H290 Skin corrosion, Category 1B, H314

Hazard pictograms



Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Prevention

P260 After use wash extensively

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

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

easy to do. Continue rinsing.

P 304

IF INHALING: Bring to fresh air and a stabile position, which relieves to breathe IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician. P309 + P310

P363 Contaminated clothing is to be washed before next use.

Storage

P405 Store under lock

Disposal

P501 Disposal of content/packaging according to regional regulations

Composition/information on ingredients chemical

Identification: CAS-No. 7664-38-2 ortho-phosphoric acid 25 - 50 %

EG-No. 015-011-00-6 EINECS-No. 2316332 UN-No. 1805

Ingredients: Phosphoric acid 40 %

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4. First aid measures

General advices: Remove contaminated clothing **After inhalation:** fresh air. Call in physician.

After skin contact: wash off with plenty of water. Immediately remove contaminated clothing. If available swab with

polyethylene glycol 400. Call a physician immediately

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist

After swallowing: Make victim drink water (2 glasses at most), avoid vomiting (risk of perforation). Call a physician

immediately. Do not attempt to neutralise.

Advices for physician: Irritation and corrosion, Cough, Shortness of breath, Pain, Spasm, shock, conjunctivitis,

Risk of blindness!

5. Firefighting measures

Suitable extinguishing Use extinguishing measures that are appropriate to local circumstances and the surrounding

media: environment. For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours. Fire may cause evolution of: Oxides of phosphorus

Advice for firefighters Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus.

Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information Suppress (knock down) gases/vapours/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area,

observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8. Environmental precautions: Do not let product enter drains.

Methods and materials for Cover drains. Collect, bind, and pump off spills.

containment and cleaning up: Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent and neutralising material. Dispose of properly.

Clean up affected area.

Indications about waste treatment see section 13.

7. Handling and Storage

Precautions for safe handling: Hygiene measures:

Advice on safe handling. Observe label precautions.

 $Immediately\, change\, contaminated\, clothing.\, Apply\, preventive\, skin\, protection.$

Wash hands and face after working with substance.

Conditions for safe storage, including any incompatibilities

Tightly closed, Store above + 10°C

8. Exposure controls/personal protection

Engineering measures Technical measures and appropriate working operations should be given priority over the use of

personal protective equipment

Individual protection measures Protective clothing needs to be selected specifically for the workplace, depending on

concentrations and quantities of the hazardous substances handled. The chemical resistance of

the protective equipment should be enquired at the respective supplier.

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Respiratory protection: Required when vapours/aerosols are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures

Odour:

nearly odourless

have to be properly documented.

Hand protection: Glove material: Nitrile rubber

> Glove thickness: 0,11 mm Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741

Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact)

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH,

D-36124 Eichenzell, Internet: www.kcl.de).

Eye/face protection:

Tightly fitting safety goggles Acid-resistant protective clothing Other protective equipment:

Environmental exposure

controls:

Do not let product enter drains.

9. Physical and chemical properties

Appearance: Shape: fluid

Colour: Slightly brown Vapour pressure: at 20 °C 0,03 hPa 20 °C Density: at 1,22 g/ml **Boiling point:** 1013 mbar 213 °C at -21

Melting point:

Flash point: notapplicable Explosion hazard: notapplicable Water solubility: 20 °C

pH: <2/20°C

VOC EU 0,00 %

EU g/l CH 0,00 %

10. Stability and reactivity

Conditions to avoid:: Strong heating above 200°C

Possibility of hazardous Corrosive in contact with metals.

Risk of ignition or formation of inflammable gases or vapours with: reactions:

Metals, metal alloys Possible formation of: Hydrogen Violent reactions possible with: bases, metallic oxides

soluble

Aluminium, iron/iron-containing compounds, Mild steel Gives off Incompatible materials:

hydrogen by reaction with metals.

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11. Toxicological information

Acute Toxicology Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the

oesophagus and the stomach., Pain

Acute inhalation toxicity Symptoms: mucosal irritations, Cough, Shortness of breath,

Possible damages:, damage of respiratory tract

Acute dermal toxicity This information is not available.

Skin irritation Mixture causes burns.

Eye irritation Mixture causes serious eye damage, conjunctivitis Risk of blindness!

This information is not available. Sensitisation Germ cell mutagenicity This information is not available. Carcinogenicity This information is not available. Reproductive toxicity This information is not available. Teratogenicity This information is not available. Specific target organ

toxicity - single exposure Specific target organ

toxicity - repeated exposure

This information is not available.

This information is not available.

This information is not available.

Aspiration hazard

Further information Quantitative data on the toxicity of this product are not available.

Convulsions, shock Further toxicological data: Systemic effects:

Further data: Handle in accordance with good industrial hygiene and safety practice.

Components

phosphoric acid

LD50 rat: 1.530 mg/kg (IUCLID) (Regulation (EC) No 1272/2008, Annex VI) Acute oral toxicity

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of

perforation of the oesophagus and the stomach.

Acute inhalation toxicity

LC50 rat: > 0,85 mg/l; 1 h (RTECS) Symptoms: mucosal irritations, Cough, Shortness of breath,

Possible damages:, damage of respiratory tract

LD50 rabbit: 2.740 mg/kg (IUCLID) Acute dermal toxicity

rabbit Skin irritation

Result: Causes burns. (IUCLID)

Eye irritation

Result: Causes burns. (IUCLID) Sensitisation Patch test: human Result: negative (IUCLID)

Germ cell mutagenicity Genotoxicity in vitro Ames

Result: negative (IUCLID) test

12. Ecological information Mixture

No information available Persistence and degradability No information available. Bioaccumulative potential No information available. Mobility in soil No information available.

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted.

Other adverse effects Additional ecological information

Harmful effect due to pH shift. Caustic even in diluted form. Biological effects:

Depending on the concentration, phosphorus compounds may contribute to the Further information on ecology

eutrophication of water supplies.

Discharge into the environment must be avoided.

Components - phosphoric acid

Toxicity to fish LC50 Gambusia affinis (Mosquito fish): 138 mg/l; 96 h (External MSDS)

Toxicity to bacteria EC50 activated sludge: 270 mg/l(IUCLID)

Biodegradability Does not cause biological oxygen deficit.

1

Water hazard class

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13. Disposal considerations

General advices: Disposal as household waste is not allowed.

Disposal according to regional requirements

Packaging: Disposal of contaminated packaging is to be handled as the product itself

14. Transport information

Land transport ADR/RID: Class: 8 (C1) UN-No.: 1805

Packaging group III

Proper shipping name: POSPHORIC ACID, SOLUTION Environmentally hazardous: --- Special precautions for user yes Tunnel restriction code E

Sea transport IMDG: Class: 8 UN 1805

Page 8204 Package group: III
EMS-No. F-A,S-B marine pollutant: no

MFAG 700

Proper shipping name: PHOSPHORIC ACID, SOLUTION

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

Air transport IATA: ICAO/IATA Class 8

UN-No. 1805 Packaging group III

Proper shipping name: PHOSPHORIC ACID, SOLUTION

Environment hazardous: -- Special precautions for user: no

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations:

Major Accident Hazard Legislation 96/82/EC

Directive 96/82/EC does not apply

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work.

National legislation

Storage class 8B

Chemical Safety Assessment For this product a chemical safety assessment was not carried out.

16. Other information

Full text of H-Statements referred to under sections 2 and 3. H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Training advice Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Further information

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.