

01 SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:**

STAINLESS STEEL CLEANER

Article number:

302000

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

See the following or attachments.

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the substance / the preparation

Cleaning material/ Detergent

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

Manufacturer:

WIGOL W Stache GmbH

chemische Fabrik

Textorstraße 2

D-67547 Worms

Tel.: +49-(0)6241-4141-0

Fax : +49-(0)6241-414141

Informing department:

Laboratory Department

TEL:+49(0)6241 4141 0; FAX:+49(0)6241 4141 41; mail: kontakt@wigol.de

1.4 Emergency telephone numberTEL: +49 (0) 6131 19240 Poison Information Center Mainz, Germany <http://www.giftinfo.uni-mainz.de/>**02 SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Met. Corr.1 - H290 May be corrosive to metals.

Skin Corr. 1B - H314 Causes severe skin burns and eye damage.

Eye Dam. 1 - H318 Causes serious eye damage.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05

Signal word

Danger

Hazard-determining components of labelling:

Orthophosphoric acid

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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 [or shower].

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

P310 Immediately call a POISON CENTER/doctor.

P406 Store in a corrosion resistant container / container with a resistant inner liner.

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- P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
According to Annex XIII, XIV of Regulation (EC) No.1907/2006 concerning REACH Not fulfilling PBT (persistent bioaccumulative/toxic) criteria. Not fulfilling vPvB (very persistent/very bioaccumulative) criteria. Self classification
 - **PBT:**
Not applicable.
 - **vPvB:**
Not applicable.

03 SECTION 3: Composition/information of ingredients

- **3.2 Mixtures**
- **Description:**
Solution of substances listed below with non declarable additions.

• **Dangerous components:**

<i>CAS Number</i>		<i>%</i>
7664-38-2	<i>Orthophosphoric acid</i> <i>EC Number: 231-633-2</i> <i>Record number 01-2119485924-24</i>  <i>Met. Corr.1 - H290, Skin Corr. 1B - H314</i>	<i>>15,0-<=30,0</i>
112-34-5	<i>2-(2-butoxyethoxy)ethanol</i> <i>EC Number: 203-961-6</i> <i>Record number 01-2119475104-44-XXXX</i>  <i>Eye Irrit. 2 - H319</i>	<i>>1,0-<=5,0</i>
	• Regulation (EC) No 648/2004 on detergents / Labelling for contents	
	<i>phosphates</i>	<i>15 - 30%</i>
	<i>anionic surfactants</i>	<i>< 5%</i>

04 SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**
Instantly remove any clothing soiled by the product.
Personal protection for the First Aider.
- **After inhalation**
Supply fresh air or oxygen; call for doctor.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult doctor.
Use eye protection.
- **After swallowing**
Rinse out mouth.
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
Do not induce vomiting; instantly call for medical help.
During spontaneous vomiting hold the head of the casualty onto low with the body in a prone position in order to avoid the penetration of vomit into the air tube.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Danger**
No further relevant information available.

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- **Treatment**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Typical corrosive acid burns. Symptoms of acute poisoning: Eyes: shooting pain, opacity of the cornea (possibly irreversible) Skin: irritations, chemical burns, possible shock Respiratory tract: tussive irritation, burning sensation to the mucous membranes
Information see: GESTIS-database on hazardous substances www.dguv.de/ifa/gestis/gestis-stoffdatenbank/

05 SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents**
Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Carbon oxides (CO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Keep breathing equipment ready.
Wear protective equipment. Keep unprotected persons away.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

06 SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions**
Dilute with much water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **6.3 Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

07 SECTION 7: Handling and storage

- **Handling**
- **7.1 Precautions for safe handling**
Prevent formation of aerosols.
Ensure good ventilation/exhaustion at the workplace.
Do not mix with alkaline products
- **Information about protection against explosions and fires:**
Keep breathing equipment ready.
- **Technically and precautionary measures**
Store in the original bundle.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**

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- **Requirements to be met by storerooms and containers:**
Observe official regulations on storing packagings with dangerous goods
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.
Protect from frost.
- **Storage class**
8 B
Storage classes according TRGS 510
- **7.3 Specific end use(s)**
No further relevant information available.

08 SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**

7664-38-2 *Orthophosphoric acid*

AGW

<i>Long-term value</i>	<i>2 E</i>	<i>mg/m3</i>
<i>2(I);DFG, EU, AGS, Y</i>		

112-34-5 *2-(2-butoxyethoxy)ethanol*

AGW

<i>Long-term value</i>	<i>67</i>	<i>mg/m3</i>
	<i>10</i>	<i>ppm</i>
<i>1,5(I);EU, DFG, Y, 11</i>		

- **Additional information:**
The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Wash hands during breaks and at the end of the work.
Instantly remove any soiled and impregnated garments.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Other regulations, limitations and prohibitive regulations see chapter 15
- **Breathing equipment: Use breathing protection when aerosol or mist is formed (FFP2) Combination filter ABEK Other regulations, limitations and prohibitive regulations see chapter 15**
- **Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended. Acid resistant protection gloves (Butyl india rubber, Viton) - EN 374 Other regulations, limitations and prohibitive regulations see chapter 15**
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection: Tightly sealed goggles (EN 166) Other regulations, limitations and prohibitive regulations see chapter 15**
- **Body protection: Protective work clothing EN 340 - Protective clothing, general requirements. Chemical protective clothing - EN 463 following. Other regulations, limitations and prohibitive regulations see chapter 15**

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09 SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance****Appearance:**

Form:	Fluid
Colour:	Colourless
Smell:	Characteristic
Odour threshold:	Not determined.
ph-value:	at 20 °C 2,0+-0,3 (10,000 g/l water)

CHANGE IN CONDITION range/value unit method**Melting point/Melting range:** Not determined**Boiling point/Boiling range:** > 100 °C**Flash point:** Not applicable**Inflammability (solid, gaseous)** Not applicable.**Ignition temperature:** Not applicable**Decomposition temperature:** Not determined.**Self-inflammability** Not determined.**Danger of explosion:** Product is not explosive.**Critical values for explosion:****Lower:** Not determined.**Upper:** Not determined.**Steam pressure:** Not determined.**Density** 1,1500 - 1,1700 g/cm³ 20°C**Solubility in / Miscibility with****Water:** Not determined.**Viscosity:****dynamic:** Not determined.**kinematic:** Not determined.**Solvent content:****Organic solvents:** 3,00 %**VOC (EC)** 34,77 g/l 3,0000 %**9.2 Other information**

No further relevant information available.

10 SECTION 10: Stability and Reactivity

- **10.1 Reactivity**
No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with alkali (lyes).
- **10.4 Conditions to avoid**
No further relevant information available.
- **10.5 Incompatible materials**
No further relevant information available.
- **Dangerous reactions**
Reacts with base metals forming hydrogen.
- **10.6 Hazardous decomposition products**
No dangerous decomposition products known

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11 SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 - 7664-38-2 Orthophosphoric acid**
Oral, LD50: 2600 mg/kg (rat)
Dermal, LD50: 2740 mg/kg (Rabbit)
Inhalative, LC50 (1h): 1,69 mg/l (rat)
 - 112-34-5 2-(2-butoxyethoxy)ethanol**
Oral, LD50: > 2000 mg/kg (rat)
Dermal, LD50: > 2000 mg/kg (Rabbit)
- **Primary irritant effect:**
- **on the skin:**
Caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Sensitization:**
No sensitizing effect known.
- **Other information (about experimental toxicology):**
Note: If the toxicity data relate to the mixture, the calculation is made in accordance with Annex VI, Part 3 of Regulation (EC) 1272/2008. If toxicity data are listed for individual substances they do not refer to the proportions in the mixture, but only on the materials in their standard concentrations.
- **Additional toxicological information:**
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
 - 7664-38-2 Orthophosphoric acid**
LC50 (96h): 138 mg/l (Gambusia affinis)
EC50 (48h): >100 mg/l (Daphnia magna)
EC50 (72h): >100 mg/l (Desmodesmus subspicatus)
 - 112-34-5 2-(2-butoxyethoxy)ethanol**
LC50: > 100 mg/l (Leuciscus idus)
EC50 (48h): > 100 mg/l (Daphnia magna)
EC50 (96h): > 100 mg/l (Desmodesmus subspicatus)
- **12.2 Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
No further relevant information available.
- **12.3 Bioaccumulative potential**
No further relevant information available.
- **12.4 Mobility in soil**
No further relevant information available.
- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
If appropriate diluted product reaches the sewage processing plant, there will be no disturbance of the biodegradable activities.
- **Additional ecological information:**
- **CSB-value:**
Not determined.

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- **BSB5-value:**
Not determined
- **AOX-indication:**
Product contains no organic bounded halogen
- **General notes:**
The surfactant(s) contained in this preparation complies(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 competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Before the waste is drained usually neutralization is necessary.
If product reaches untreated water systems, hazardous effects on fish and other water organism are possible.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.
- **12.6 Other adverse effects**
No further relevant information available.

13 SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
The allocation of the waste disposal key number is to be executed by the user according to the European waste disposal catalog (EAK) industry and product specific (origin-referred).
The waste keys are only referring to concentrated products.
- **European waste catalogue**
06
WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01
wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 99
wastes not otherwise specified
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
- **Recommended cleaning agent:**
Water, if necessary with cleaning agent.

14 SECTION 14: Transport information

- **14.1 UN-Number**
- ADR** UN1805
- IMDG** UN1805
- IATA** UN1805
- **14.2 UN proper shipping name**
- ADR** 1805 PHOSPHORIC ACID, SOLUTION
- IMDG** PHOSPHORIC ACID, SOLUTION
- IATA** PHOSPHORIC ACID, SOLUTION
- **14.3 Transport hazard class(es)**
- ADR**
- Class** 8 (C1) Corrosive substances.

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Label**IMDG****Class**

8 Corrosive substances.

Label**IATA****Class**

8 Corrosive substances.

Label

- **14.4 Packing group**

ADR

III

IMDG

III

IATA

III

- **14.5 Environmental hazards:**

Marine pollutant:

No

- **14.6 Special precautions for user**

Warning: Corrosive substances.

Danger code (Kemler):

80

EMS Number:

F-A,S-B

Segregation groups

Acids

- **14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Excepted quantities (EQ):

E1

Limited quantities (LQ)

5L

Transport category

3

Tunnel restriction code

E

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

E1

- **UN "Model Regulation":**

UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

15 SECTION 15: Regulatory information

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

- **REGULATION (EC) No 1907/2006 ANNEX XVII**

Conditions of restriction: 3, 55

- **National regulations**

Germany: Technical rules for dangerous materials (TRGS) in particular consider:
TRGS 500 Protection measures : minimum standards

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TRGS 531 endangerment of the skin by work in the damp environment (damp work)
 TRGS 201 Classification and marking from wastes to the removal while handling
 Germany: Regard the principles of the professional organizations rules (BGR) in particular consider:
 BGR 197: Use of skin protection

- **Classification after plant security regulation (BetrsichV):**

-

- **Technical instructions (air):**

No further details

- **Water hazard class:**

Water hazard class 1 (€) : slightly hazardous for water.Self-assessment

- **Other regulations, limitations and prohibitive regulations**

- **x**

"Arbeitsmedizinische Vorsorge" (DGUV-V6)

- **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

16 SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

- **Training hints**

Consider annual instruction and training of the coworkers
 Contents and time of the instruction are to be held in a written form and must be confirmed by the instructing people by signature. Consider storage time of the proof.

- **Recommended restriction of use**

No public product - only for commercial applications.

- **Department issuing data specification sheet:**

Laboratory department.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**

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