



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.02.2015

Version: 6

Revision: 05.02.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** STAINLESS**Article number:** EU24107**1.2 Relevant identified uses of the substance or mixture and uses advised against****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)

Product category PC35 Washing and cleaning products (including solvent based products)**Application of the substance / the mixture** Toilet cleaner**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

ZEP UK Ltd
PO Box 12 Tanhouse Lane
Widnes Cheshire, WA8 0RD
United Kingdom
Phone: +44 0151 422 1000
FAX: +44 0151 422 1011
@: info@zep.co.uk
web: www.zep.co.uk

ZEP Industries BV
Vierlingweg 30
4612 PN Bergen op Zoom
The Netherlands
Tel: (NL) + 31 164 250 100 (B) + 32 2 347 0117
Fax:(NL) + 31 164 266 710 (B) + 32 2 347 1395
@: sales@zepbenelux.com

ZEP ITALIA SRL
Via Netunese Km. 25.000
04011 Aprilia (LT) - Italy
Tel: +39.06.926691
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Further information obtainable from:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

1.4 Emergency telephone number:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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

Eye Dam. 1 H318 Causes serious eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

C; Corrosive

R34: Causes burns.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.02.2015

Version: 6

Revision: 05.02.2015

Trade name: STAINLESS

(Contd. of page 1)

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**















GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Alcohol ethoxylate C9 - C11
dodecylbenzenesulfonic acid
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
P260 Do not breathe vapours.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards** The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7664-93-9 EINECS: 231-639-5 Reg.nr.: 01-2119458838-20	sulphuric acid  C R35  Skin Corr. 1A, H314	2.5-5%
CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24-xxxx	phosphoric acid  C R34  Met. Corr.1, H290; Skin Corr. 1B, H314	2.5-5%
CAS: 68439-46-3 Polymer	Alcohol ethoxylate C9 - C11  Xn R22  Xi R41  Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312	2.5-5%
CAS: 85536-14-7 EINECS: 287-494-3 Reg.nr.: 01-2119490234-40-xxxx	dodecylbenzenesulfonic acid  C R34  Xn R22  Skin Corr. 1B, H314  Acute Tox. 4, H302	1-2.5%

- **Ingredients according to Detergents Regulation 648/2004/EC**
For the wording of the listed risk phrases refer to section 16.

Nonionic surfactants	< 5%
Perfumes (LIMONENE)	

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.02.2015

Version: 6

Revision: 05.02.2015

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(Contd. of page 2)

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

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:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose 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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Use only in well ventilated areas.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

7664-38-2 phosphoric acid (2.5-5%)

WEL (Great Britain)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
IOELV (European Union)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³

(Contd. on page 4)

Safety data sheet

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Printing date 05.02.2015

Version: 6

Revision: 05.02.2015

Trade name: STAINLESS

(Contd. of page 3)

· DNELs**7664-93-9 sulphuric acid**

Inhalative	DNEL Acute-local mg/m ³	0.1 mg/m ³ (worker)
	DNEL Long term local mg/m ³	0.05 mg/m ³ (worker)

7664-38-2 phosphoric acid

Inhalative	DNEL Long term local mg/m ³	0.73 mg/m ³ (consumer)
		2.92 mg/m ³ (worker)

85536-14-7 dodecylbenzenesulfonic acid

Oral	DNEL Long term-systemic	0.85 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	85 mg/kg human/day (consumer)
		170 mg/kg human/day (worker)
Inhalative	DNEL Long term local mg/m ³	3 mg/m ³ (consumer)
		12 mg/m ³ (worker)
	DNEL Long term-systemic mg/m ³	3 mg/m ³ (consumer)
		12 mg/m ³ (worker)

· PNECs**7664-93-9 sulphuric acid**

PNEC Freshwater mg/L	0.0025 mg/L (-)
PNEC Freshwater sediment	0.002 mg/Kg (-)
PNEC Marine water sediment	0.002 mg/Kg (-)
PNEC Marinewater mg/L	0.00025 mg/L (-)
PNEC Sewage treatment Plant mg/L	8.8 mg/L (-)

85536-14-7 dodecylbenzenesulfonic acid

PNEC Freshwater mg/L	0.287 mg/L (-)
PNEC Freshwater sediment	0.287 mg/Kg (-)
PNEC Intermittent release	0.0167 (-) (mg/L)
PNEC Marine water sediment	0.287 mg/Kg (-)
PNEC Marinewater mg/L	0.0287 mg/L (-)
PNEC Sewage treatment Plant mg/L	3.43 mg/L (-)
PNEC Soil	35 mg/Kg (-)

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls**· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· Protection of hands:

Protective gloves

Rubber gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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.

Rubber gloves

· 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.
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Not suitable are gloves made of the following materials:** Strong material gloves

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.02.2015

Version: 6

Revision: 05.02.2015

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(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Acid resistant protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· Form:	Fluid
· Colour:	Light blue
· Odour:	Pleasant
· Odour threshold:	Not determined.

· **pH-value at 20 °C:** < 1· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	> 103 °C

· **Flash point:** Not applicable.· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:**· **Decomposition temperature:** Not determined.· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapour pressure at 20 °C:** 23 hPa

· Density at 20 °C:	1.063 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

· **Solubility in / Miscibility with water:** Fully miscible.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

· Dynamic:	Not determined.
· Kinematic at 20 °C:	100 s (DIN 53211/4)

· **Solvent content:**

· Organic solvents:	0.1 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity**· **10.2 Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used 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.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.02.2015

Version: 6

Revision: 05.02.2015

Trade name: STAINLESS

(Contd. of page 5)

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

7664-93-9 sulphuric acid

Oral	LD50	2140 mg/kg (Rat)
	EC50 / 24 h	29 mg/ltr (Daphnia magna (water flea))
	LC50 / 96 h	>500 mg/ltr (blu)
		>500 mg/ltr (Brachydanio rerio)

7664-38-2 phosphoric acid

Oral	LD50	2600 mg/kg (Rat)
Dermal	LD50	2740 mg/kg (Rabbit)
	LC50 / 96 h	138 mg/ltr (blu)
		98-106 mg/ltr (fish)
	LC50/ 24 h	245 mg/ltr (Brachydanio rerio)

68439-46-3 Alcohol ethoxylate C9 - C11

Oral	LD50	1400 mg/kg (Rat)
Dermal	LD50	2000 mg/kg (Rat)

85536-14-7 dodecylbenzenesulfonic acid

Oral	LD50	>300-2000 mg/kg (Rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (Rat)
	EC 50 / 48 h	>1-10 mg/ltr (Daphnia magna (water flea)) (OECD 202)
	EC 50 / 72 H	>10-100 (Desmodesmus subspicatus) (mg/L OECD 201)
	LC50 / 96 h	>1-10 mg/ltr (Cyprinus Carpio) (OECD 203)
		>1-10 mg/ltr (Lepomis Macrochirus (Bluegill Sunfish))
		1-10 mg/ltr (Brachydanio rerio)

· **Primary irritant effect:**

· **on the skin:**

Strong caustic effect on skin and mucous membranes.

Caustic effect on skin and mucous membranes.

Irritant to skin and mucous membranes.

· **on the eye:** Strong caustic effect.

· **Sensitisation:** No sensitising effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

85536-14-7 dodecylbenzenesulfonic acid

OECD test 301 A >70 (biodegradation in % after 28 days)

· **12.2 Persistence and degradability** No further relevant information available.

· **Other information:** The product is biodegradable.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **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.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

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Version: 6

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Trade name: STAINLESS

(Contd. of page 6)

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
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15 01 00	packaging (including separately collected municipal packaging waste)
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15 01 02	plastic packaging
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN1760

· **14.2 UN proper shipping name**

· **ADR** 1760 CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID, dodecylbenzesulfonic acid)

· **IMDG, IATA** CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID, dodecylbenzesulfonic acid)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 8 (C9) Corrosive substances.

· **Label** 8

· **IMDG, IATA**



· **Class** 8 Corrosive substances.

· **Label** 8

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

· **Danger code (Kemler):** Warning: Corrosive substances.

· **EMS Number:** 80

· **EMS Number:** F-A,S-B

(Contd. on page 8)

Safety data sheet
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(Contd. of page 7)

· Segregation groups	Acids
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN1760, CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID, dodecylbenzenesulfonic acid), 8, III

SECTION 15: Regulatory information

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

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	0,1-1

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this 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.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

R22 Harmful if swallowed.

R34 Causes burns.

R35 Causes severe burns.

R41 Risk of serious damage to eyes.

· Department issuing MSDS:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

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IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

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· 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)

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.02.2015

Version: 6

Revision: 05.02.2015

Trade name: STAINLESS

(Contd. of page 8)

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Met. Corr.1: Corrosive to metals, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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

GB