

**Cleanolyte CE 1**

Material number 81.5051.1

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**SECTION 1: Identification of the substance/mixture  
and of the company/undertaking**

**1.1 Product identifier**

Trade name: Cleanolyte CE 1

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

General use: Cleaning agent for refined steel  
For industrial purposes only

**1.3 Details of the supplier of the safety data sheet**

Company name: Schilling Marking Systems GmbH

Street/POB-No.: In Grubenäcker 1

Postal Code, city: 78532 Tuttlingen

Germany

WWW: [www.schilling-marking.de](http://www.schilling-marking.de)

E-mail: [info@schilling-marking.de](mailto:info@schilling-marking.de)

Telephone: +49 (0)7461 9472-17

Telefax: +49 (0)7461 9472-29

Dept. responsible for information:

Herr Andreas Schilling,

Telephone: +49 (0)7461 9472-15, Email: [info@schilling-marking.de](mailto:info@schilling-marking.de)

**1.4 Emergency telephone number**

**Beratungsstelle für Vergiftungserscheinungen, Berlin,**  
Telephone: +49 (0)30 19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

This preparation is classified as not hazardous.

**2.2 Label elements**

**Labelling (67/548/EEC or 1999/45/EC)**

R phrase(s): not applicable

S phrase(s): S 24/25 Avoid contact with skin and eyes.

Text for labelling: A corrosive effect cannot be ruled out because of the pH value.  
Contains anionic tenside <5%.

**2.3 Other hazards**

Eye contact: May cause irritations.

A corrosive effect cannot be ruled out because of the pH value.

Cleaning work: Product may release corrosive gases/vapours.

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**SECTION 3: Composition/ information on ingredients**

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterization (preparation):

A mixture of water, mineral acids and complexing agent

Hazardous ingredients:

Ingredient	Chemical name	Content	Classification
EINECS 231-633-2 CAS 7664-38-2	Phosphoric acid	1-10 %	EU: C; R34. CLP: Met. Corr. 1; H290. Skin Corr. 1B; H314.

Additional information: Labelling for contents according to regulation (EC) No 648/2004, annex 7:  
Contains anionic tenside <5%.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information: Remove contaminated clothing.

After inhalation: Provide fresh air. Seek medical treatment in case of troubles.

In case of skin contact: Immediately clean with water and soap and, if available, apply a generous amount of polyethylene glycol 400. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth and drink large quantities of water.  
Do not induce vomiting. Risk of perforation! Immediately get medical attention.**4.2 Most important symptoms and effects, both acute and delayed**

After inhalation: May cause irritations.

After contact with skin: May cause irritations.

After eye contact: May cause irritations.

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

Risk of foam aspiration when vomiting.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

**5.2 Special hazards arising from the substance or mixture**

On heating or in case of fire toxic gases may form.

In the event of a fire, the following may be produced when the water evaporates:

Phosphorus oxides.

Hydrogen may form upon contact with metals (danger of explosion!).

**5.3 Advice for firefighters**

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

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Additional information: Hazchem-Code: 2R  
Use water spray jet to knock down vapours.  
Do not allow fire water to penetrate into surface or ground water.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe vapour/aerosol.  
Avoid contact with the substance. Wear suitable protective clothing.

**6.2 Environmental precautions**

Do not allow to penetrate into soil, waterbodies or drains.

**6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.  
Use soda or another alkaline detergent for removal of residues.

**6.4 Reference to other sections**

Refer additionally to chapter 8 and 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advices on safe handling Provide adequate ventilation, and local exhaust as needed.  
Do not breathe vapour/aerosol. Avoid contact with skin and eyes.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storerooms and containers:

Store containers tightly closed in a cool, dry, well ventilated area at temperatures not below 0°C °C.  
Protect from frost.  
Unsuitable materials: metal.

Storage class: 8B= Non-combustible corrosive substances

**7.3 Specific end use(s)**

Cleaning agent for refined steel

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

CAS No.	Chemical name	Type	Limit value
7664-38-2	Phosphoric acid	Great Britain: WEL-TWA	1 mg/m <sup>3</sup>
		Great Britain: WEL-STEL	2 mg/m <sup>3</sup>
		Europe: IOELV: TWA	1 mg/m <sup>3</sup>
		Europe: IOELV: STEL	2 mg/m <sup>3</sup>

**8.2 Exposure controls**

Provide good ventilation and/or an exhaust system in the work area.

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### Occupational exposure controls

- Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Combination filtering device (EN 14387), filter type B-P2
- Hand protection: Protective gloves according to EN 374.  
Glove material: Nitrile rubber-Layer thickness:  $\geq 0,35$  mm  
Possible alternatives: natural rubber, butyl caoutchouc (butyl rubber), fluoro rubber.  
Breakthrough time:  $> 480$  min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to EN 166.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:  
Persons working with this product should not wear contact lenses.  
Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing. Do not breathe vapour/aerosol.  
Wash hands before breaks and after work.  
Have eye wash bottle or eye rinse ready at work place.

### Consumer exposure controls

Combination filtering device (EN 14387), filter type B-P2

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour	colourless, clear
Odour:	characteristic
Boiling temperature / boiling range	approx. 100 °C
Melting point / melting range	approx. 0 °C
Flash point / flash point range:	not combustible
pH value:	at 20 °C: 1,6
Water solubility:	at 20 °C: infinitely soluble

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Risk of corrosion

### 10.2 Chemical stability

Product is stable under normal storage conditions.

### 10.3 Possibility of hazardous reactions

Hydrogen may form upon contact with metals (danger of explosion!).

### 10.4 Conditions to avoid

Protect from excessive heat.

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### 10.5 Incompatible materials

Alkalis, metallic oxides, iron, steel, aluminium, ferruginous compounds

### 10.6 Hazardous decomposition products

In the event of a fire, the following may be produced when the water evaporates:  
Phosphorus oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological effects

Acute toxicity (oral): Based on available data, the classification criteria are not met.  
Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Inconclusive data.  
Classification according to EC regulation 1272/2008 (CLP), appendix VI.  
Eye damage / irritation: Inconclusive data.  
Classification according to EC regulation 1272/2008 (CLP), appendix VI.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Lack of data.  
Germ cell mutagenicity/Genotoxicity: Lack of data.  
Carcinogenicity: Lack of data.  
Reproductive toxicity: Lack of data.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Lack of data.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.

### Symptoms

After inhalation: May cause irritations.  
After contact with skin: May cause irritations.  
After eye contact: May cause irritations.

### General remarks

A corrosive effect cannot be ruled out because of the pH value.  
The following applies to Phosphoric acid in general: LD50 Rat, oral: 1530 mg/kg.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.  
Information about Phosphoric acid:  
Forms corrosive mixtures with water even if diluted.  
Fish toxicity: LC50 *Gambusia affinis*: 138 mg/L/96 h.

Water Hazard Class: 1 = slightly hazardous to water

Further details: The surfactant contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### 12.2. Persistence and degradability

Further details: No data available

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### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

AOX reference: Product does not contain organically bound halogen (AOX).

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number 11 01 06\* = Wastes from chemical surface treatment and coating of metals and other materials: acids not otherwise specified  
\* = Evidence for disposal must be provided.

Recommendation: Special waste. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Waste key number 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA: 1805

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA: UN 1805, PHOSPHORIC ACID SOLUTION

### 14.3 Transport hazard class(es)

ADR/RID: Class 8, Code: C1

IMDG: Class 8, Code -

IATA: Class 8

### 14.4 Packing group

ADR/RID, IMDG, IATA: III

### 14.5 Environmental hazards

Marine pollutant - IMDG: No

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**14.6 Special precautions for user****Land transport (ADR/RID)**

Warning board:	ADR/RID: Kemmler-number 80, UN number 1805
Hazard label	8
Limited quantities	5 L
EQ	E1
Contaminated packaging: Instructions	P001 IBC03 LP01 R001
Special provisions for packing together	MP19
Portable tanks: Instructions	T4
Portable tanks: Special provisions	TP1
Tank coding	L4BN
Tunnel restriction code:	E

**Sea transport (IMDG)**

EmS:	F-A, S-B
Special provisions	223
Limited quantities	5 L
EQ	E1
Contaminated packaging: Instructions	P001, LP01
Contaminated packaging: Provisions	-
IBC: Instructions	IBC03
IBC: Provisions	-
Tank instructions: IMO	-
Tank instructions: UN	T4
Tank instructions Provisions	TP1
Stowage and segregation	Category A.
Properties and observations	Miscible in water. Mildly corrosive to most metals.
Segregation group	1

**Air transport (IATA)**

Hazard	Corrosive
EQ	E1
Passenger Ltd.Qty.:	Pack.Instr. Y841 - Max.Qty. 1 L
Passenger:	Pack.Instr. 852 - Max.Qty. 5 L
Cargo:	Pack.Instr. 856 - Max.Qty. 60 L
Special Provisioning	A3 A803
ERG	8L

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code: 2R

**National regulations - Germany**

Storage class: 8B= Non-combustible corrosive substances

Water Hazard Class: 1 = slightly hazardous to water

Informations on working limitations:

Observe employment restrictions concerning young persons.

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### National regulations - USA

Hazard rating systems



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

### 15.2 Chemical Safety Assessment

No data available

## SECTION 16: Other information

### Further remarks

Wording of the R-phrases under paragraph 2 and 3:

R 34 = Causes burns.

Reason of change:

General revision

### Group that issues data sheet

Contact person: see chapter 1, department responsible for information.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.