

**Cleanolyte CE 3**

Article number 81.5403.1

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

Trade name: Cleanolyte CE 3

**1.2 Relevant identified uses of the substance or mixture and uses advised against**General use: Cleaning agent for stainless steels  
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  
GermanyWWW: [www.schilling-marking.de](http://www.schilling-marking.de)E-mail: [info@schilling-marking.de](mailto:info@schilling-marking.de)

Telephone: +49 (0)7461 9472-0

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Dept. responsible for information:

Herr Andreas Schilling,  
Telephone: +49 (0)7461 9472-0  
Email: [info@schilling-marking.de](mailto:info@schilling-marking.de)**1.4 Emergency telephone number**

GIZ-Nord, Germany Telephone: +49 (0)551-19240

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H335 May cause respiratory irritation.

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

Xi; R36/37/38 Irritating to eyes, respiratory system and skin.

**2.2 Label elements****Labelling (CLP)**

Signal word:

**Warning**

Hazard statements:

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

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Safety precautions:	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+P352	IF ON SKIN: Wash with plenty of water/soap.
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

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

irritant

R phrase(s):	R 36/37/38	Irritating to eyes, respiratory system and skin.
S phrase(s):	S 23	Do not breathe vapour/aerosol.
	S 24/25	Avoid contact with skin and eyes.
	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Special labelling**

Text for labelling: Contains anionic tenside &lt; 5%.

**2.3 Other hazards**

A corrosive effect cannot be ruled out because of the pH value.  
Risk of serious damage to eyes.  
Cleaning work: Product may release corrosive gases/vapours.

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

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterization: A mixture of water, mineral acids and complexing agent

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EINECS 231-595-7	Hydrochloric acid	1 - 10 %	EU: C; R34. Xi; R37. CLP: Met. Corr. 1; H290. Skin Corr. 1B; H314. STOT SE 3; H335.
EINECS 231-633-2 CAS 7664-38-2	Phosphoric acid	5 - 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.

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In case of inhalation:	Provide fresh air. In case of respiratory difficulties seek medical attention.
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

no data available

### 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, hydrochloric, chlorine.

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.

Additional information:

Hazchem-Code: 2X

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 good 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)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	Hydrochloric acid	Europe: IOELV: STEL	15 mg/m <sup>3</sup> ; 10 ppm (Hydrogen chloride)
		Europe: IOELV: TWA	8 mg/m <sup>3</sup> ; 5 ppm (Hydrogen chloride)
		Great Britain: WEL-STEL	8 mg/m <sup>3</sup> ; 5 ppm (gas and aerosol mists)
		Great Britain: WEL-TWA	2 mg/m <sup>3</sup> ; 1 ppm (gas and aerosol mists)
		Ireland: 15 minutes	15 mg/m <sup>3</sup> ; 10 ppm IOELV
	Ireland: 8 hours	8 mg/m <sup>3</sup> ; 5 ppm IOELV	
7664-38-2	Phosphoric acid	Europe: IOELV: STEL	2 mg/m <sup>3</sup>
		Europe: IOELV: TWA	1 mg/m <sup>3</sup>
		Great Britain: WEL-STEL	2 mg/m <sup>3</sup>
		Great Britain: WEL-TWA	1 mg/m <sup>3</sup>
		Ireland: 15 minutes	2 mg/m <sup>3</sup> IOELV
	Ireland: 8 hours	1 mg/m <sup>3</sup> IOELV	

### 8.2 Exposure controls

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

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Combination filter B-P2 according to EN 141.

Hand protection: Protective gloves according to EN 374.  
Glove material: Nitrile rubber-Layer thickness: >= 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 safety glasses 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Physical state: liquid Colour: clear
Odour:	characteristic
Odour threshold:	no data available
pH value:	at 20 °C: 0.5 - 1.0
Melting point/freezing point:	approx. 0 °C
Initial boiling point and boiling range:	approx. 100 °C
Flash point/flash point range:	not combustible
Evaporation rate:	no data available
Flammability:	no data available
Explosive properties:	no data available
Explosion limits:	no data available no data available
Vapour pressure:	no data available
Vapour density:	no data available
Density:	no data available
Water solubility:	at 20 °C: infinitely soluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	no data available
Explosive properties:	no data available
Oxidizing characteristics:	no data available

### 9.2 Other information

Additional information:	no data available
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## 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

Polymerisation will not occur.

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

### 10.4 Conditions to avoid

Protect from excessive heat.

### 10.5 Incompatible materials

Alkalis, aluminium, sulphuric acid, hydrides, aldehydes, sulfides fluorine, nitrates, carbides, cyanides, picrates, Metallic oxides, iron, steel, aluminium, ferruginous compounds

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**10.6 Hazardous decomposition products**

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

In case of fire may be liberated: Phosphorus oxides, hydrochloric, chlorine.

Thermal decomposition: no data available

**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.  
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute toxicity (dermal): Lack of data.  
Acute toxicity (inhalative): Lack of data.  
Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.  
Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.  
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): STOT SE 3; H335 = May cause respiratory irritation.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Based on available data, the classification criteria are not met.  
Risk of foam aspiration when vomiting.

**General remarks**

The following applies to hydrochloric acid in general:  
LCLo human, oral: ca. 2,86 mg/kg (Hydrogen chloride).  
LCLo human, inhalative: 3000 ppm/5 min (Hydrogen chloride).  
The following applies to Phosphoric acid in general:  
LD50 Rat, oral: 1530 mg/kg.  
LC50 Rat, inhalative: >850 mg/m<sup>3</sup>

**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.

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

**12.3 Bioaccumulative potential**Partition coefficient: n-octanol/water:  
no data available

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**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\* = acids not otherwise specified  
\* = Evidence for disposal must be provided.

Recommendation: 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: 3264

**14.2 UN proper shipping name**ADR/RID, IMDG, IATA: UN 3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Hydrochloric acid and Phosphoric acid)**14.3 Transport hazard class(es)**

ADR/RID: Class 8, Code: C1

IMDG: Class 8, Subrisk -

IATA: Class 8

**14.4 Packing group**

ADR/RID, IMDG, IATA: III

**14.5 Environmental hazards**

Marine pollutant: No



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

Warning board:	ADR/RID: Kemmler-number 80, UN number 3264
Hazard label:	8
Special provisions:	274
Limited quantities:	5 L
EQ:	E1
Contaminated packaging - Instructions:	P001 IBC03 LP01 R001
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T7
Portable tanks - Special provisions:	TP1 TP28
Tank coding:	L4BN
Tunnel restriction code:	E

**Sea transport (IMDG)**

EmS:	F-A, S-B
Special provisions:	223, 274
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:	T7
Tank instructions - Provisions:	TP1, TP28
Stowage and segregation:	Category A. Clear of living quarters.
Properties and observations:	Causes burns to skin, eyes and mucous membranes.
Segregation group:	1

**Air transport (IATA)**

Hazard:	Corrosive
EQ:	E1
Passenger Ltd.Qty.:	Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger:	Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo:	Pack.Instr. 856 - Max. Net Qty/Pkg. 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: 2X



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**National regulations - EC member states****Labelling of packaging with <= 125mL content**

Signal word:

**Warning**

Hazard statements:

H335

May cause respiratory irritation.

Safety precautions:

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312

Call a POISON CENTER/doctor if you feel unwell.

**National regulations - USA**

Hazard rating systems:

NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

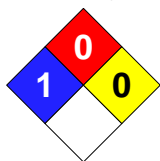
HMIS Version III Rating:

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**

For this mixture a chemical safety assessment is not required.

**SECTION 16: Other information****Further information**

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

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

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

R 34 = Causes burns.

R 36/37/38 = Irritating to eyes, respiratory system and skin.

R 37 = Irritating to respiratory system.

Reason of change:

General revision

Date of first version:

28.07.2008

**Department issuing data sheet**

Contact person:

see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.