

Cleanolyte CE 1

Article number 81.5051.1

Page:

1 of 8

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: Electrolytic/electro-chem metal marking for Carbide, black-oxide parts and electro-chem (acid) cleaning
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
E-mail: info@schilling-marking.de
Telephone: +49 (0)7461 9472-0
Telefax: +49 (0)7461 9472-28

Dept. responsible for information:
Herr Andreas Schilling,
Telephone: +49 (0)7461 9472-0
Email: 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)**

This mixture is classified as not hazardous.

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

This preparation is classified as not hazardous.

2.2 Label elements**Labelling (CLP)**

Hazard statements: not applicable

Safety precautions: P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

Special labelling

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

Cleanolyte CE 1

Article number 81.5051.1

Page:

2 of 8

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.

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 231-633-2 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.

In case of 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**

In case of 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!).

Cleanolyte CE 1

Article number 81.5051.1

Page:

3 of 8

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

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)

No information available.

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

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7664-38-2	Phosphoric acid	Europe: IOELV: STEL	2 mg/m ³
		Europe: IOELV: TWA	1 mg/m ³
		Great Britain: WEL-STEL	2 mg/m ³
		Great Britain: WEL-TWA	1 mg/m ³
		Ireland: 15 minutes	2 mg/m ³ IOELV
		Ireland: 8 hours	1 mg/m ³ IOELV

Cleanolyte CE 1

Article number 81.5051.1

Page:

4 of 8

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 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**

- Appearance: Physical state: liquid
Colour: colourless, clear
- Odour: characteristic
- Odour threshold: no data available
- pH value: at 20 °C: 1.6
- 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

Cleanolyte CE 1

Article number 81.5051.1

Page:

5 of 8

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.

10.5 Incompatible materials

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

10.6 Hazardous decomposition productsIn the event of a fire, the following may be produced when the water evaporates:
Phosphorus oxides.

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.
- 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

In case of 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.

Cleanolyte CE 1

Article number 81.5051.1

Page:

6 of 8

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

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, Subrisk -

IATA: Class 8

Cleanolyte CE 1

Article number 81.5051.1

Page:

7 of 8

14.4 Packing group

ADR/RID, IMDG, IATA: III

14.5 Environmental hazards

Marine pollutant: No

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. 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: 2R

Cleanolyte CE 1

Article number 81.5051.1

Page: 8 of 8

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.

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

R 34 = Causes burns.

Reason of change: Changes in section 1: Use

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.