

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

# Cleanolyte CE 2

Article number 81.5152.1 Page: 1 of 9

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

#### 1.1 Product identifier

Trade name: Cleanolyte CE 2

#### 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

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)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

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

Xi; R36/38 Irritating to eyes and skin.

#### 2.2 Label elements

Labelling (CLP)



Signal word: Warning

Hazard statements: H315 Causes skin irritation.

H319 Causes serious eye irritation.



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

Cleanolyte CE 2

Article number 81.5152.1 Page: 2 of 9

Safety precautions: P264 Wash hands and face thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

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



irritant

R phrase(s): R 36/38 Irritating to eyes 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 < 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 231-639-5 CAS 7664-93-9	Sulfuric acid	1 - 5 %	EU: C; R35. CLP: Met. Corr. 1; H290. Skin Corr. 1A; H314.
EINECS 231-633-2 CAS 7664-38-2	Phosphoric aci	d 1-5%	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.



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

Cleanolyte CE 2

Article number 81.5152.1 Page: 3 of 9

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

Danger of foam aspiration.

# 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, sulphur 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.

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 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.



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

# Cleanolyte CE 2

Article number 81.5152.1 Page: 4 of 9

#### 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	Туре	Limit value
7664-93-9	Sulfuric acid	Europe: IOELV: TWA Great Britain: WEL-TWA	0.05 mg/m³ 0.05 mg/m³ (The mist is defined as the thoracic fraction)
		Ireland: 8 hours	0.05 mg/m³
7664-38-2	Phosphoric acid	Europe: IOELV: STEL	2 mg/m³
		Europe: IOELV: TWA	1 mg/m³
		Great Britain: WEL-STEL	2 mg/m³
		Great Britain: WEL-TWA	1 mg/m³
		Ireland: 15 minutes	2 mg/m³ IOELV
		Ireland: 8 hours	1 mg/m³ 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: colourless



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

# Cleanolyte CE 2

Article number 81.5152.1 Page: 5 of 9

Odour: characteristic
Odour threshold: no data available

pH value: at 20 °C: 1.2 - 1.5

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

no data available no data available

Vapour pressure:

Vapour density:

Density:

no data available
no data available
no data available

Water solubility: at 20 °C: infinitely soluble

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Thermal decomposition:

Viscosity, dynamic:

Explosive properties:

Oxidizing characteristics:

no data available
no data available
no data available
no data available

#### 9.2 Other information

Additional information: no data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

**Explosion limits:** 

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, ammonia, halogen compounds, permanganates, carbides, cyanides, hydrides, metallic oxides, iron, steel, aluminium, ferruginous compounds

# 10.6 Hazardous decomposition products

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, sulphur oxides.

Thermal decomposition: no data available



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

# Cleanolyte CE 2

Article number 81.5152.1 Page: 6 of 9

# **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

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: Based on available data, the classification criteria

are not met.

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: Based on available data, the classification criteria are not met.

Danger of foam aspiration

#### **General remarks**

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

Information about sulphuric acid: LD50 Rat, oral: 350 mg/kg

LC50 Rat, inhalative: 530 mg/m³/2 h. Information about Phosphoric acid: LD50 Rat, oral: 1530 mg/kg. LC50 Rat, inhalative: >850 mg/m³

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

Information about sulphuric acid:

Forms corrosive mixtures with water even if diluted. Daphnia toxicity: EC50 Daphnia magna: 29 mg/L/24 h.

Fish toxicity: LC50 Lepomis macrochirus (bluegill) 16 - 29 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



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No  $453/2010\,$ 

Revision date: 31.03.2014 Version: en-GB.IE Language: Date of print: 09.04.2014

# Cleanolyte CE 2

Article number 81.5152.1 Page: 7 of 9

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

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.

Dispose of waste according to applicable legislation. Recommendation:

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging

Dispose of waste according to applicable legislation. Recommendation:

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.

(Sulfuric acid, Phosphoric acid)

#### 14.3 Transport hazard class(es)

Class 8, Code: C1 IMDG: Class 8, Subrisk -

IATA: Class 8

### 14.4 Packing group

ADR/RID, IMDG, IATA:

#### 14.5 Environmental hazards

Marine pollutant: Nο

#### 14.6 Special precautions for user

#### Land transport (ADR/RID)

ADR/RID: Kemmler-number 80, UN number 3264 Warning board:

Hazard label: Special provisions: 274 Limited quantities: 5 L

Contaminated packaging - Instructions: P001 IBC03 LP01 R001

Special provisions for packing together: **MP19** Portable tanks - Instructions: **T7 TP1 TP28** Portable tanks - Special provisions: Tank coding: L4BN

Tunnel restriction code: Ε





according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

# Cleanolyte CE 2

Article number 81.5152.1 Page: 8 of 9

#### 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:

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:

#### 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

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word: Warning
Hazard statements: not applicable
Safety precautions: not applicable

#### 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





according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 453/2010

Revision date: 31.03.2014 Version: 5 Language: en-GB,IE Date of print: 09.04.2014

# Cleanolyte CE 2

Article number 81.5152.1 Page: 9 of 9

# 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.

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

R 34 = Causes burns.

R 35 = Causes severe burns.

R 36/38 = Irritating to eyes and skin.

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.