

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

### 1.1. Product identifier

Name of product Aluminium Cleaner  
Art-Nr 02.1702.00

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Recommended intended purpose(s)**  
cleaning agent

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer/distributor** Yachticon A. Nagel GmbH  
Hans-Böckler-Ring 33, D-22851 Norderstedt  
Phone +49 40 511 3780, Fax +49 40 51 74 37  
E-Mail yachticon@yachticon.de  
Internet www.yachticon.de

### Advice

Phone +49 40 511 37 80  
Fax +49 40 51 74 37  
E-mail (competent person):  
yachticon@yachticon.de

### 1.4. Emergency telephone number

**Emergency advice** Giftinformationszentrale Berlin  
Phone +49 (0)30 192 40

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Eye Irrit. 2	H319	
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### Hazard statements for health hazards

H319 Causes serious eye irritation.

### Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS07

### Signal word

Warning

### Hazard statements for health hazards

H319 Causes serious eye irritation.

## Precautionary Statements

### General

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

### Prevention

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

### Response

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/ information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
5949-29-1	201-069-1	Citric acid monohydrate	< 50	Eye Irrit. 2, H319
68439-50-9	Polymer	Fatty alcohol, C12-14, ethoxylated	< 3	Acute Tox. 4, H302 / Eye Dam. 1, H318 / Aquatic Acute 1, H400

### REACH

CAS No	Name	REACH registration number
5949-29-1	Citric acid monohydrate	02-2119773813-30-XXXX

#### Labelling for contents according to regulation (EC) No 648/2004, annex VII

less than 5 % non-ionic surfactants

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove moistened clothing immediately.  
In the event of persistent symptoms receive medical treatment.

#### In case of inhalation

Ensure of fresh air.  
In the event of symptoms refer for medical treatment.

#### In case of skin contact

In case of contact with skin wash off with soap and water.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
Remove contact lenses.

#### In case of ingestion

Rinse out mouth and give plenty of water to drink.

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**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

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

No information available.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

**Unsuitable extinguishing media**

Full water jet

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

In the case of thermal decomposition formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

The product itself does not burn.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Avoid skin and eye contact.

Use personal protective clothing.

**6.2. Environmental precautions**

No information available.

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

Send in suitable containers for recovery or disposal.

Flush away residues with water.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Avoid contact with skin and eyes.

#### General protective measures

Avoid contact with the skin.

Avoid contact with the eyes.

#### Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in closed original container.

Provide acid-resistant floor.

#### Advice on storage compatibility

Do not store with alkalis.

Do not store together with oxidizing agents.

#### Further information on storage conditions

Keep container dry, tightly closed and store at cool place.

**Storage group** 12

### 7.3. Specific end use(s)

No information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No information available.

### 8.2. Exposure controls

#### Respiratory protection

Not necessary with adequate exhaust ventilation.

#### Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitril, 0,4 mm, 60 min, 480 min. e.g. "Camatril Profi" (KCL GmbH, Email: Vertrieb@kcl.de)

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### Eye protection

safety goggles

#### Other protection measures

protective clothing

**Appropriate engineering controls**

Ensure good ventilation, where necessary use fume hood.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

liquid

**Colour**

colourless

**Odour**

almost odourless

**Odour threshold**

No information available.

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>					acid
<b>Boiling temperature / boiling range</b>	No information available.				
<b>Melting point / Freezing point</b>	No information available.				
<b>Flash point</b>					not applicable
<b>Vapourisation rate</b>	No information available.				
<b>Flammable (solid)</b>	No information available.				
<b>Flammability (gas)</b>	No information available.				
<b>Ignition temperature</b>	No information available.				
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>	No information available.				
<b>Upper explosion limit</b>	No information available.				
<b>Vapour pressure</b>	No information available.				
<b>Relative density</b>	No information available.				
<b>Vapour density</b>	No information available.				
<b>Solubility in water</b>		25 °C			soluble
<b>Solubility/other</b>	No information available.				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	No information available.				

	Value	Temperature	at	Method	Remark
<b>Decomposition temperature</b>	No information available.				
<b>Viscosity</b>	No information available.				
<b>Oxidising properties</b>	No information available.				
<b>Explosive properties</b>	The product is not explosive.				
<b>9.2. Other information</b>	Refer to technical data sheet.				

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal conditions of use.

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Reactions with oxidising agents.

Reactions with reducing agents.

Reactions with alkalies.

### 10.4. Conditions to avoid

heat

### 10.5. Incompatible materials

#### Materials to avoid

Alkali (lye)

Oxidising agent

Reducing agent

### 10.6. Hazardous decomposition products

Concerning possible decomposition products see section 5.

### Thermal decomposition

Remark No decomposition if used as directed.

### Additional information

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>Irritability skin</b>	non-irritant			
<b>Irritability eye</b>	irritant			
<b>Skin sensitization</b>	No known sensitization.			
<b>Sensitization respiratory system</b>	No known sensitization.			

#### Additional information

The product should be handled with the care usual when dealing with chemicals.  
Further hazardous properties can not be excluded.

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## SECTION 12: Ecological information

### 12.1. Toxicity

No information available.

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

An accumulation in organisms is not expected.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

Harmful effect in the water possible by shifting of the pH value.

#### Behaviour in sewage plant

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

#### General regulation

Ecological dates are not available.

Do not allow uncontrolled leakage of product into the environment.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Recommendations for the product

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement. This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender.

#### Recommendations for packaging

Totally emptied packaging may be taken for recycling.  
Totally emptied packaging may be treated as household waste.  
Disposal according to official regulations.

#### Recommended cleansing agent

water

#### General information

Allocation of the waste number has to be done according to the EWC directive industry- and process-specific.

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## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

#### 14.6. Special precautions for user

No information available.

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

No information available.

#### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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## SECTION 15: Regulatory information

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



**Aluminium Cleaner**

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**National regulations**

**Water hazard class** 1 following VwVwS  
slightly hazardous to water

**Decree for case of  
interference/remarks** Not subject to the Hazardous Incident Ordinance

**15.2. Chemical Safety Assessment**

No information available.

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**SECTION 16: Other information**

**Training advice**

See the technical data sheet for more information.

**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

The national special regulations have to be implemented by each user their own responsibility!

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please note: Our Material Safety Data Sheets have been prepared in accordance with EU directives, WITHOUT taking into account the specific national regulations for handling hazardous materials and chemicals.

**Sources of key data used**

Data sheets of the suppliers.

European Chemicals Agency (ECHA)

Federal Environment Agency (water hazard classes)

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.