

Product information cc 507 (cleaning agent)

Application

cc 507 is a highly effective acidic cleaning agent to remove mineral scale and metal oxides. cc 507 is environmentally friendly and easy to use. cc 507 is based on organic acids and contains inhibitors for protection of metallic materials.

Added value

- cc 507 remove mineral scale and metal oxides.
- Compatible with most construction materials.
- Safe handling.
- Environmentally friendly
- Easy biodegradable product.

Dosing

cc 507 cleaning agent can be applied as a 1-10% water solution, depending upon the characteristics and severity of the scale or fouling to be removed.

By applying a correct temperature, agitation and contact time, the dosages of the reconditioning agent can be optimized.

Handling

Suitable personal protective measures are provided in the safety data sheet.

Disposal handling

The environmental impact depends on what has to be cleaned. The used cleaning solution may be classified as environmentally hazardous waste. Such waste must be managed in accordance with official requirements for the type of waste in question. The product itself does not constitute environmentally hazardous waste, and as such reduces the amount of waste handling and optimizes the overall disposal cost. The cleaning solution can be neutralized by calcium carbonate, soda or sodium hydroxide.

Important information

A Material Safety Data Sheet is included with each of our products. The material safety data sheets contain important information on occupational health on safety, on the basis of which our customers can generate appropriate work instructions to protect their employees and customers in order to prevent harmful effects when handling the substances. Before using the gwk products in your system, make sure that the material

safety data sheets have been read and understood by your supervisory staff and the appropriate employees.

Shelf life

6 months in opened containers.

2 years in originally sealed containers.

Storage conditions: dry, cool, frost-free, dark.

Packaging

10 kg canister, 25 kg canister

All descriptions, information, and data contained herein is believed to be accurate and reliable. However, it does not constitute a warranty, express or implied warranty of any properties, nor does it represent a commitment to commercial or technical suitability for any particular application. Therefore, we cannot accept any liability whatsoever. These descriptions, information, and data should serve as a basis for your considerations, research, and examinations. Statements and suggestions on our part regarding the possible use of our product are without guarantee that such an application does not infringe on industrial property rights of third parties, and they should not be regarded as a suggestion for patent infringement.

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

cc 507

Product code:

gwkcc507

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

Water treatment chemicals

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	gwk	
	Gesellschaft Wärme und Kältetechnik mbH	
Street:	Scherl 10	
Place:	D-58540 Meinerzhagen	
Telephone:	+49 2354 7060 - 0	Telefax: +49 2354 7060 - 156
e-mail (Contact person):	info@gwk.com	
Internet:	www.gwk.com	
Responsible Department:	Wassertechnik	

1.4. Emergency telephone number:**+49 (0) 30 30686700****SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Serious eye damage / eye irritation: Eye irritation. 2

Hazard statements:

Causes serious eye irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

None.

Signal word: Attention**Pictograms:**

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice / attention.

Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Formulation of preparations (mixtures)

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
5949-29-1	citric acid			20 - 50 %
	201-069-1	.		
	Eye Irrit. 2; H319			
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Full text of H and EUH statements: see section 16.

Further Information

No information available.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

Remove contaminated, saturated clothing immediately.

After inhalation

Move victim to fresh air. Instruct person to keep calm and warm.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water. Foam. ABC powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In the event of a fire: Nitrogen oxides (NO_x). Hydrogen chloride (HCl). Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Wear personal protection equipment.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

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).

6.4. Reference to other sections

Take up mechanically, placing in appropriate containers for disposal.

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

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

No special handling instructions are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Conditions to avoid: frost.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
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Additional advice on limit values

No information available.

8.2. Exposure controls

Appropriate engineering controls

No information available.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Chemical resistant protective gloves (EN 374)

Skin protection

No information available.

Respiratory protection

No information available.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: yellow
 Odour: characteristic

pH-Value (at 20 °C):

Changes in the physical state

Test method

ca. 2 DIN 19268

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Melting point:

- 1 °C DIN 51556

Initial boiling point and boiling range:

> 100 °C ASTM D 1120

Density (at 25 °C):

ca. 1,1 g/cm³ DIN 12809**9.2. Other information**

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Oxidizing agents. Alkali metals. Acid. Reducing agent. Alkalis (alkalis).

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidizing agents. Alkali metals. Acid. Reducing agent. Alkalis (alkalis).

10.6. Hazardous decomposition products

No information available.

Further information

No information available.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

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

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
5949-29-1	citric acid			
	oral	LD50 3000 mg/kg	rat	.

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion / irritation: Due to available data the classification criteria are not met.

Sensitising effects

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

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Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

Additional information on tests

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Practical experience

Observations relevant to classification

No information available.

Other observations

No information available.

Further information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
5949-29-1	citric acid				
	Acute fish toxicity	LC50	440-760 mg/l	96 h	Leuciscus idus

	Acute crustacea toxicity	EC50	120 mg/kg	48 h	Daphnia magna

12.2. Persistence and degradability

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

12.3. Bioaccumulative potential

Does not accumulate in organisms.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
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12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

Further information

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Waste key product: Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

No dangerous good in the sense of these transport regulations.

14.2. UN proper shipping name:

No dangerous good in the sense of these transport regulations.

14.3. Transport hazard class(es):

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14.4. Packing group:

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Hazard label:

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Classification code:

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Special Provisions:

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Limited quantity:

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Excepted quantity:

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Transport category:

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Hazard No:

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Tunnel restriction code:

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Inland waterways transport (ADN)**14.1. UN number:**

No dangerous good in the sense of these transport regulations.

14.2. UN proper shipping name:

No dangerous good in the sense of these transport regulations.

14.3. Transport hazard class(es):

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14.4. Packing group:

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Hazard label:

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Classification code:

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Special Provisions:

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Limited quantity:

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Excepted quantity:

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Marine transport (IMDG)**14.1. UN number:**

No dangerous good in the sense of these transport regulations.

14.2. UN proper shipping name:

No dangerous good in the sense of these transport regulations.

14.3. Transport hazard class(es):

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14.4. Packing group:

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Hazard label:

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Special Provisions:

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Limited quantity: .
 Excepted quantity: .
 EmS: .

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in the sense of these transport regulations.
14.2. UN proper shipping name: No dangerous good in the sense of these transport regulations.
14.3. Transport hazard class(es): .
14.4. Packing group: .
 Hazard label: .
 Special Provisions: .
 Limited quantity Passenger: .
 Passenger LQ: .
 Excepted quantity: .
 IATA-packing instructions - Passenger: .
 IATA-max. quantity - Passenger: .
 IATA-packing instructions - Cargo: .
 IATA-max. quantity - Cargo: .
 Danger releasing substance: .

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Other applicable information

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

No information available.

National regulatory information

Water contaminating class (D): 1 – slightly water contaminating

Biocide registry number: .

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H319 Causes serious eye irritation.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)