

Product  
**GREEN-ACID**  
 (HIGH CONCENTRATE LIQUID)

A Water Company

Version: 1.0  
 Printing Date: 17.08.2015

Watch® encourages and expects you to read and understand the entire MSDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

<b>1</b>	<b>CHEMICAL PRODUCT &amp; COMPANY IDENTIFICATION</b>
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**Product Name:** Green-Acid

**Application:** Highly efficient industrial cleaning agent. Cleaning of scales.

**Company Identification/Supplier** Watch Water GmbH  
 Fahrlochstr. 14  
 D-68165 Mannheim  
 Germany  
 Phone: + 49 62187951-0  
 Fax: + 49 62187951-99

**Emergency information (8:00- 16:45)** Phone: +49 621 87951-50

<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
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**Emergency overview**

CORROSIVE.  
 Corrosive to the skin, eyes and respiratory system. Avoid contact with the skin, eyes and clothing.

**State of matter:** liquid  
**Colour:** reddish/pink  
**Odour:** none/product specific

**Potential health effects**

**Acute toxicity:** Harmful if swallowed.

**Irritation / corrosion:** Corrosive to skin and/or eyes.

**Assessment other acute effects:** Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

**Sensitization:** Skin sensitizing effects were not observed in animal studies.

**Chronic toxicity:**

**Reproductive toxicity:** The results of animal studies gave no indication of a fertility impairing effect.

**Teratogenicity:** In animal studies the substance did not cause malformations.

**Genotoxicity:** The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in bacteria. The substance was not mutagenic in a test with mammals.

**Signs and symptoms of overexposure:** The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

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**Labeling:**

- **Labeling according to Regulation (EC) No 1272/2008**  
This product requires labeling according to 2008/1272/EC.
- **Labeling according to Directive 67/548/EEC or 1999/45/EC**  
This product requires labeling according to 67/548/EEC or 1999/45/EC

**Other hazards**

The product contains methanesulphonic acid.

**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

<b>3</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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- Chemical characterization: solid and liquid mixture

Component, name	CAS-Nr.	Classification	Hazard	Conc.(w/w)
methanesulphonic acid	75-75-2	Skin Corr. 1B	H314	≥ 85%
water	7732-18-5	none	none	≥10%
proprietary	proprietary	none	none	<0.01%
proprietary	proprietary	none	none	<1.5%
proprietary	proprietary	none	none	<0.6%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, nonhazardous and/or present at amounts below reportable limits.

<b>4</b>	<b>FIRST-AID MEASURES</b>
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- **General Information:**  
Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.
- **Eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a physician.
- **Skin contact:** Immediately wash thoroughly with plenty of water, apply sterile dressings, and consult a skin specialist.
- **Inhalation:** If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention. Immediately inhale corticosteroid dose aerosol.
- **Ingestion:** Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

**Note to physician:**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

<b>5</b>	<b>FIRE FIGHTING MEASURES</b>
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- **Suitable extinguishing media:** water spray, dry powder, foam
- **Unsuitable extinguishing media:** water jet
- **Exposure hazards:** harmful gases
- **Combustion products:** Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.
- **Protective equipment:** Firefighters and other exposed, wear self-contained breathing apparatus and protective suit.

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- **Further information:** The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

<b>6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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- **Personal precautions:** Use personal protective clothing. Information regarding personal protective measures see, chapter 8.
- **Environmental precautions:** Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
- **Methods for cleaning up:** Place absorbed material in the same container as the spilled substance/product for disposal.  
*For small amounts:* Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).  
*For large amounts:* Pump off product.
- **Disposal method:** The material be disposed in accordance with applicable local, state and federal regulations.

<b>7</b>	<b>HANDLING AND STORAGE</b>
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- **Handling:** Normal chemical handling. Wear protective gloves and eye protection.
- **Storage:** Protect from sun. Store in a dry, cool place. Keep container sealed and dry.
- The relevant fire protection measures should be noted.

<b>8</b>	<b>EXPOSURE CONTROL/PERSONAL PROTECTION</b>
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**Personal protective equipment:**

- **Respiratory protection:** Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
- **Eye protection:** Tightly fitting safety goggles (chemical protection goggles).
- **Hands:** Chemicals resistant gloves (EN 374) Nitril, PVC or chloroprene protective gloves.
- **Skin protection:** Wear appropriate protective clothing. Avoid skin contact with the spilled product.
- **Body protection:** Body protection must be chosen based on level of activity and exposure.
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the eyes and skin.

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>General Information:</b>	
<b>Physical State</b>	liquid
<b>Appearance</b>	reddish / pink
<b>Odor</b>	weak, product specific
<b>Flash point:</b>	(DIN 51755) not applicable
<b>Boiling point:</b>	135°C
<b>Bulk density:</b>	ca. 1340 kg/m <sup>3</sup>
<b>Solubility in water:</b>	soluble

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications. Avoid storing at high temperatures or in direct sunlight.
- **Materials to avoid:** Contact with strong oxidizing agents and alkaline substances.
- **Conditions to avoid:** See MSDS section 7 - Handling and storage.

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- **Hazardous decomposition products:** None when used according to specifications
- **Thermal decomposition:** not determined
- **Corrosion to metals:** Corrosive effect on metals.

## 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

Oral LD50 (oral, rat)	>1940 mg/kg
Inhalation LC50 (rat)	>3.5 mg/l Exposure time: 6 h
Dermal LD50 (rabbit)	>2000 mg/kg

#### Primary irritant effect:

Skin (rabbit):	Irritant to skin
Eye (rabbit):	Irritant
Sensitization (Buehler test, guinea pig):	No sensitizing effects known

## 12 ECOLOGICAL INFORMATION

### Toxicity

- **Fish:**  
 Acute: OECD guideline 203 static.  
 LC50 (Oncorhynchus mykiss, 96 hours) > 80 mg/l
- **Aquatic invertebrates**  
 Acute: OECD Guideline 202, part 1 static  
 Daphnia magna/EC50 (48 h): 10 - 100 mg/l
- **Aquatic plants**  
 Toxicity to aquatic plants: OECD Guideline 201  
 Green algae/EC50 (72 h): 10 - 100 mg/l  
 The details of the toxic effect relate to the nominal concentration.
- **Toxicity to microorganisms:**  
 Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
- **Persistence and degradability:**  
 > 70% DOC reduction; biodegradable
- **Bio-accumulative potential:**  
 No bioaccumulation is to be expected, log P(o/w)<1
- **Mobility in soil:**  
 No further relevant information available.
- **Additional ecological information:**  
 Do not release untreated into natural waters.

The product has not been tested. The statement has been derived from the properties of the individual components.

## 13 DISPOSAL CONSIDERATIONS

- **Waste disposal of substance:** Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with local authority regulations.
- **Container disposal:** Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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**14 | TRANSPORT INFORMATION**

- **Land Transport (ADR/RID/ADN):**  
Hazard Class: 8  
Packing: II  
ID Number: UN 3265  
Label: 8  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains METHANESULPHONIC ACID)
- **Sea Transport (IMDG/IMO):**  
Hazard Class: 8  
Packing: II  
ID Number: UN 3265  
Label: 8  
Marine Pollutant: No  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains METHANESULPHONIC ACID)
- **Air Transport (IATA/ICAO):**  
Hazard Class: 8  
Packing: II  
ID Number: UN 3265  
Label: 8  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains METHANESULPHONIC ACID)

**15 | REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Labeling according to Regulation (EC) No 1272/2008

The substance requires classification or labeling under the CLP regulation.

**16 | OTHER INFORMATION**

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.
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