

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2010

Revision: 12.07.2010

1 Identification of substance:

- Product details:
- Trade name: **Aquastar 2 – Komponente 2**
- Application of the substance / the preparation: Disinfectant
- Manufacturer/Supplier:
Truma Gerätetechnik GmbH & Co. KG
Wernher-von-Braun-Straße 12
85640 Putzbrunn
Telefon +49 (0)89 4617-0
Telefax +49 (0)89 4617-2116
info@truma.com
www.truma.com
- Informing department: Product safety department.
- Emergency information:
Kundendienst: +49 (0)89 4617-2141
r.lackner@truma.com

2 Hazards identification

- Hazard designation:



Xi Irritant

- Information pertaining to particular dangers for man and environment
R 36/37/38 Irritating to eyes, respiratory system and skin.
- GHS label elements

**Warning**

- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- Prevention:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P321 Specific treatment (see on this label).
- Storage:
P405 Store locked up.
- Disposal:
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- Chemical characterization:
- CAS No. Designation:
77-92-9 citric acid

(Contd. on page 2)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2010

Revision: 12.07.2010

Trade name: **Aquastar 2 – Komponente 2**

(Contd. of page 1)

- Identification number(s):
- EINECS Number: 201-069-1

4 First aid measures

- General information Instantly remove any clothing soiled by the product.
- After inhalation In case of unconsciousness bring patient into stable side position for transport.
- After skin contact The product is generally no skin irritant.
- After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- After swallowing Drink copious amounts of water and provide fresh air. Instantly call for doctor.

5 Fire fighting measures

- Suitable extinguishing agents Use fire fighting measures that suit the environment.
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Do not allow product to reach sewage system or water bodies.
- Measures for cleaning/collecting:
 - Dispose of contaminated material as waste according to item 13.
 - Ensure adequate ventilation.

7 Handling and storage

- Handling
 - Information for safe handling: No special measures required.
 - Information about protection against explosions and fires: No special measures required.
- Storage
 - Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Store away from foodstuffs.
 - Further information about storage conditions: Keep container tightly sealed.

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the compilation were used as basis.
- Personal protective equipment
 - General protective and hygienic measures
 - Keep away from foodstuffs, beverages and food.
 - Take off immediately all contaminated clothing
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
 - Breathing equipment: Not required.
 - Protection of hands:
 - Protective gloves.
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2010

Revision: 12.07.2010

Trade name: **Aquastar 2 – Komponente 2**

(Contd. of page 2)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Tightly sealed safety glasses.

9 Physical and chemical properties:

- General Information

Form:	Crystalline powder
Colour:	Whitish
Odour:	Odourless

- Change in condition

Melting point/Melting range:	>150°C
Boiling point/Boiling range:	Not determined

- Flash point: Not applicable
- Inflammability (solid, gaseous) Product is not inflammable.
- Ignition temperature: 345°C
- Danger of explosion: Product is not explosive.
- Density at 20°C - g/cm³
- Settled apparent density at 20°C ca.900 kg/m³
- Solubility in / Miscibility with
Water at 20°C: 600 g/l
Fully miscible
- pH-value (100 g/l) at 20°C: ca.3
- Organic solvents: 0.0 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
- Dangerous products of decomposition: Possible in traces.

11 Toxicological information

- Acute toxicity:
- LD/LC50 values that are relevant for classification:

77-92-9 citric acid

Oral LD50 6730 mg/kg (rat)

- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effect known.
- Additional toxicological information:
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

(Contd. on page 4)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2010

Revision: 12.07.2010

Trade name: **Aquastar 2 – Komponente 2**

(Contd. of page 3)

12 Ecological information:

- Ecotoxicological effects:

- Aquatic toxicity:

77-92-9 citric acid

EC50 (72h) 120 mg/l (Daphnia magna)

EC50 (96h) 440 - 760 mg/l (Leuciscus idus)

LC50 (96h) 440 - 760 mg/l (Leuciscus idus)

- Additional ecological information:

- General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water.

13 Disposal considerations

- Product:

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

- Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport information

- Land transport ADR/RID (cross-border)

- ADR/RID-GGVS/E Class: -

- Maritime transport IMDG:

- IMDG Class: -

- Marine pollutant: No

- Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: -

- UN "Model Regulation": -

15 Regulatory information

- Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- Code letter and hazard designation of product:



Xi Irritant

- Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

- Safety phrases:

22 Do not breathe dust.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2010

Revision: 12.07.2010

Trade name: **Aquastar 2 – Komponente 2**

(Contd. of page 4)

- National regulations
- Water hazard class: Water hazard class 1 : slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing data specification sheet: Environment protection department.
- Contact: Abteilung Labor
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- * Data compared to the previous version altered.

GB