

Material Safety Data Sheet (MSDS)
according to 91/155/EWG

prepared: September 2007

printed: 08.11.2007

1. Identification of the Preparation and Company:

Trade name: **HydroQuant® Tablets Alka-M**
Distributor: WAPOTEC Verfahrenstechniken zur
Wasseraufbereitung GmbH
Carola-Blome-St. 7
5020 Salzburg/Austria

phone: ++43 / 662 / 434342
fax: ++43 / 662 / 434342-3

2. Composition/Information on Ingredients

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

CAS: 124-04-9	adipic acid	Xi ; R 36	5-10%
EINECS: 204-673-3			
EC Number: 607-144-00-9			

Additional information: For the wording of the listed risk phrases refer to section 16.

3. Hazards Identification:

Hazard designation: Void

Information pertaining to particular dangers for man and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification Guideline for Preparations of the EU" in the latest valid version.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4. First Aid Measures:

General information: Instantly remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact: Instantly wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing: Drink copious amounts of water, induce vomiting. In case of persistent symptoms consult doctor.

The following symptoms may occur:

After swallowing of large amounts: sickness, vomiting.

After inhalation: mucous membrane irritation.

Danger: Danger of disturbed cardiac rhythm.

5. Fire-fighting Measures:

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards caused by the material, its products or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

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Protective equipment: Wear self-contained breathing apparatus.

Additional information: Ambient fire may liberate hazardous vapours. Collect contaminated fire fighting water separately. It must not enter drains. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental Release Measures:

Person-related safety precautions:

Avoid causing dust. 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:

Collect mechanically. Ensure adequate ventilation. Dispose of contaminated material as waste according to item 13.

Additional information: No dangerous materials are released.

7. Handling and Storage:

Handling:

Information for Safe Handling:

No special measures required.

Information about protection against explosions and fires:

Protect from heat.

Storage:

Requirements to be met by storerooms and containers: Store in cool location.

Information about storage in one common storage facility: Store away from solvents.

Further information about storage conditions: Protect from heat and direct sunlight. Store under dry conditions. Protect from humidity and keep away from water. Keep container tightly sealed.

Storage class: Not required.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists that were valid during the compilation were used as basis.

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures should be adhered to general rules for handling chemicals.

Breathing equipment:

Use breathing protection against the effects of fumes/dust/aerosol.

Recommended filter device for short term use: Filter P1

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Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material:
= 0.11 mm

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Value for the permeation: Level = 6 (480 min).

Eye protection: Safety glasses.

Body protection: Protective work clothing.

9. Physical and Chemical Properties:

Form: Tablets
Colour: Yellow
Odour: Odourless

Change in condition:

Melting point/Melting range: Not determined

Boiling point/Boiling range: 265 °C

Flash point: > 100 °C

Ignition temperature: 450 °C

Self-inflammability: Product is not self-igniting.

Danger of explosion: Product is not explosive.

Density: Not determined.

Solubility in/Miscibility with

Water: Soluble

pH-value (8.8 g/l) at 20 °C: 3.5

Solvent content:

Organic solvents: 0.0 %

Solids content: 100 %

10. Stability and Reactivity:

Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.

Dangerous products of decomposition: See chapter 5.

11. Toxicological Information:

Acute toxicity: Quantitative data on the toxicity of the preparation are not available.

LD/LC50 values that are relevant for classification:

124-04-09 adipic acid

Oral LD50 5700 mg/kg (rat)

7783-18-8 ammonium thiosulphate

Oral LD50 2890 mg/kg (rat)

10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H3BO3 calculated on the dry weight.

Oral LD50 2660 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat)

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Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritant effect.

Sensitization: No sensitising effect known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EC classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The usual precautionary measures should be adhered to general rules for handling chemicals.

12. Ecological Information:

Information about elimination (persistence and degradability):

Other information:

Quantitative data on the ecological effect of this product are not available.

Behaviour in environmental systems:

124-04-9 adipic acid

log P(o/w) 0.093 (25 °C)

10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H3BO3 calculated on the dry weight.

log P(o/w) - 0.76 (25 °C) (.)

Ecotoxicological effects:

Aquatic toxicity:

124-04-9 adipic acid:

EC50 86 mg/l/48h (Daphnia magna)

LC50 511 mg/l/48h (Leuciscus idus)

97 mg/l/96h (Pimephales promelas)

10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H3BO3 calculated on the dry weight.

EC50 133 mg/l/48h (Daphnia magna)

Remark:

Toxic for fish: sulphates > 7 g/l

Additional ecological information:

CSB-value:

77-92-9 citric acid

COD 0.728 g/g (.)

BSB5-value:

124-04-9 adipic acid

BSB5 0.598 g/g (.)

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

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13. Disposal Consideration:

Product:

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

European waste catalogue

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07, or 16 05 08

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: --

Transport/Additional information: Not dangerous according to the above specifications.

15. Regulatory Information:

Designation according to EC guidelines:

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

Special designation of certain preparations: Safety data sheet available for professional user on request.

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.

Relevant R-phrases: 36 Irritating to eyes.

Contact:

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