

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP) and 453/2010/EC

Printing date 24.02.2015

Version number 1

Revision: 24.02.2015

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

#### 1.1 Product identifier

Trade name **Wasserfrisch**

Article number: **48200**

Article number: 48200

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

#### Application of the substance / the mixture

Biocide

Water treatment

Water conditioner

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

##### Manufacturer/Supplier:

Kurita Europe APW GmbH

Giulinistraße 2

D-67065 Ludwigshafen

[www.kurita.eu](http://www.kurita.eu)

Tel: +49 621 5709-3000

Fax: +49 621 5709-6452

##### Information:

MSDS@kurita.eu

#### 1.4 Emergency telephone number: Tel.: +49 621 / 5709-112

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

##### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### 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.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS09

##### Signal word Void

##### Hazard statements

H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

PBT: not applicable

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. **vPvB**: not applicable

### SECTION 3: Composition/information on ingredients

#### . 3.2 Chemical characterisation: Mixtures

##### . Description:

biocides  
Organic salts  
Solubility promoter  
Inorganic salts  
colorant  
Fragrances

##### . Dangerous components:

CAS: 25988-97-0	Methanamine, N-methyl-, polymer with (chloromethyl)oxirane Xn R22; N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	0.3-<1%
CAS: 7758-98-7 EINECS: 231-847-6 Index number: 029-004-00-0 Reg.nr.: 01-2119520566-40-xxxx	copper sulphate Xn R22; Xi R36/38; N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<0.1%

. **SVHC** No

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

### SECTION 4: First aid measures

#### . 4.1 Description of 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** :

Wash with water and soap.

If skin irritation continues, consult a doctor.

. **After eye contact** : Rinse opened eye for 15 minutes under running water. If symptoms persist, consult doctor.

. **After swallowing** :

Rinse out mouth and then drink plenty of water (approx. 500 ml).

Seek medical treatment.

. **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### . 5.1 Extinguishing media

##### . Suitable extinguishing agents

Use fire fighting measures that suit the environment.

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with foam.

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

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

Fire can cause release of :

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

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- . **5.3 Advice for firefighters**
- . **Protective equipment:** Put on breathing apparatus.
- . **Additional information** Cool endangered containers with water spray jet.

### SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- . **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- . **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- . **6.4 Reference to other sections**  
See section 7 for information on safe handling  
See section 8 for information on personal protection equipment.

### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling** No special measures required.
- . **Information about protection against explosions and fires:**  
No special measures required.  
The product is not flammable
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:**  
Store only in the original container.  
Provide floor trough without outlet.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:**  
Protect from frost.  
Store in cool, dry conditions in well sealed containers.
- . **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see section 7.
- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:**
- . **Additional information:** The lists that were valid during compilation were used as a basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment**
- . **General protective and hygienic measures**  
The usual precautionary measures should be adhered to in handling the chemicals.  
Keep away from foodstuffs, beverages and food.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- . **Breathing equipment:**  
Use breathing protection only when aerosol or mist is formed.  
Short term filter device: ABEK-filter
- . **Protection of hands:**  
Protective gloves:  
In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).

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- Layer thickness of gloves at least: 0.4 mm
- In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
- Layer thickness of gloves at least: 0.7 mm
- . **Material of gloves**
  - Butyl rubber, BR
  - Fluorocarbon rubber (Viton)
  - Nitrile rubber, NBR
  - Natural rubber, NR
  - Chloroprene rubber, CR
  - Neoprene gloves
- . **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.
- . **Eye protection:** Safety glasses (DIN 58211, EN 166)
- . **Body protection:** Light weight protective clothing

### SECTION 9: Physical and chemical properties

- . **9.1 Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**
  - Form:** Fluid
  - Colour:** Light green
- . **Smell:** Characteristic
- . **Odour threshold:** not determined
- . **pH-value at 20 °C:** ca. 3.7 (100 %)
- . **Change in condition**
  - Melting point/Melting range:** not determined
  - Boiling point/Boiling range:** Not determined
- . **Flash point:** Not applicable
- . **Inflammability (solid, gaseous)** not applicable
- . **Ignition temperature:**
  - Decomposition temperature:** not determined
- . **Danger of explosion:** Product is not explosive.
- . **Critical values for explosion:**
  - Lower:** not applicable
- . **Oxidising properties** none
- . **Steam pressure at 20 °C:** ca. 23 hPa
- . **Density at 20 °C** ca. 1.0 g/cm<sup>3</sup>
- . **Evaporation rate** not determined
- . **Solubility in / Miscibility with**
  - Water:** Fully miscible
- . **Partition coefficient (n-octanol/water):** not determined
- . **Viscosity:**
  - dynamic:** not determined

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. 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

- . 10.1 Reactivity No hazardous reactions when stored and handled according to instructions.
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions No dangerous reactions known
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: No further relevant information available.
- . 10.6 Hazardous decomposition products: No dangerous decomposition products known

### SECTION 11: Toxicological information

- . 11.1 Information on toxicological effects
- . Acute toxicity:
- . LD/LC50 values that are relevant for classification:
- 25988-97-0 Methanamine, N-methyl-, polymer with (chloromethyl)oxirane
- Oral LD50 1672 mg/kg (rat, female) (OECD 401)

Components	Type	Value	Species
Product ATEmix	oral	> 5000 mg/kg	
Product ATEmix	dermal	> 5000 mg/kg	

- . Primary irritant effect:
- . on the skin: No irritant effect.
- . on the eye: Moderate irritation
- . Sensitisation No sensitizing effect known.
- . Repeated dose toxicity No further relevant information available.
- . CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) No further relevant information available.

### SECTION 12: Ecological information

- . 12.1 Toxicity
- . Aquatic toxicity:
- 25988-97-0 Methanamine, N-methyl-, polymer with (chloromethyl)oxirane
- EC50 (3 h) 168 mg/L (activated sludge) (OECD 209)
- EC50 (48 h) 0.084 mg/L (daphnia magna) (OECD 202)
- EC50 (72 h) 0.09 mg/L (desmodesmus subspicatus) (OECD 201)
- LC50 (96 h) 0.077 mg/L (rainbow trout) (OECD 203)
- M-factor 10 (acute)
- 10 (chronic)
- . 12.2 Persistence and degradability non-rapidly biodegradable
- . Other information: Easy elimination possible by flocculation or adsorption by sludge.
- . 12.3 Bioaccumulative potential No further relevant information available.
- . 12.4 Mobility in soil No further relevant information available.
- . Ecotoxicological effects:
- . Other information: No AOX

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- . **Additional ecological information:**
- . **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**  
None
- . **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- . **13.1 Waste treatment methods**
- . **Recommendation**  
Smaller quantities can be disposed with household garbage.  
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be deposited with domestic waste or incinerated with domestic waste.
- . **European waste catalogue**  
16 03 05\* organic wastes containing dangerous substances
- . **Uncleaned packaging:**
- . **Recommendation:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.  
Dispose of packaging according to regulations on the disposal of packagings.
- . **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

- . **14.1 UN-Number**
- . **ADR, IMDG, IATA** UN3082
- . **14.2 UN proper shipping name**
- . **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polymerized quaternary ammonium chloride)
- . **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polymerized quaternary ammonium chloride), MARINE POLLUTANT
- . **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polymerized quaternary ammonium chloride)
- . **14.3 Transport hazard class(es)**
- . **ADR**



- . **Class** 9 (M6) Miscellaneous dangerous substances and articles.

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. Label	9
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. IMDG, IATA	
	
. Class	9 Miscellaneous dangerous substances and articles.
. Label	9
. 14.4 Packing group	III
. ADR, IMDG, IATA	III
. 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Polymerized quaternary ammonium chloride
. Marine pollutant:	Yes
. Special marking (ADR):	Symbol (fish and tree)
. Special marking (IATA):	Symbol (fish and tree)
. 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
. Kemler Number:	90
. EMS Number:	F-A,S-F
. 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	Frost protected transport has to be guaranteed.
-----	
. ADR	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
. Transport category	3
. Tunnel restriction code	E
-----	
. IMDG	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
. UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polymerized quaternary ammonium chloride), 9, III

### SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- . National regulations Void
- . 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 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.

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### Relevant phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R22 Harmful if swallowed.
- R36/38 Irritating to eyes and skin.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Department issuing data specification sheet: Product Safety and Regulatory Affairs

Contact: [MSDS@kurita.eu](mailto:MSDS@kurita.eu)

### Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Sources: source ECHA: European Chemicals Agency, <http://echa.europa.eu/>