



# Aquazinga Binder

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 03/04/2014

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Supersedes: /

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Aquazinga Binder

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, only to be used in combination with Aquazinga Powder  
Industrial/Professional use spec : Paint.

##### 1.2.2. Uses advised against

No additional information available

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

Zingametall Bvba  
Rozenstraat 4, Industriepark  
9810 Eke  
Belgium  
Tel.: +32 (0)9 385 68 81  
Fax.: +32 (0) 9 385 58 69  
E-mail: zingametall@zinga.be

Mr. Guy Willemot

#### 1.4. Emergency telephone number

Emergency number : +32 (0) 70 245 245

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

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

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

##### Hazards summary:

Alkaline solution.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : None  
Signal word (CLP) : None  
Hazard statements (CLP) : None  
Precautionary statements (CLP) : None

#### 2.3. Other hazards

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Silicate (molar ratio > 3,2)	(EC no) 215-687-4 (REACH reg. no) 01-2119448725-31-0012	10-30	Not classified
Water	(EC no) 231-791-2	70-90	Not classified

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after eye contact : Immediately flush eyes with eyewash solution or water (for 10 minutes). Seek an oculist if necessary.
- First-aid measures after skin contact : Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
- First-aid measures after inhalation : After inhalation of spray mist: bring to fresh air, seek medical advice if necessary.
- First-aid measures after ingestion : Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

Not classified as a hazardous substance or mixture.

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

Speed in removal of material is of prime importance  
Remove soiled clothing immediately

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Not applicable. Inorganic material. Non-combustible, therefore define extinguishing measures according to neighbouring conditions.
- Unsuitable extinguishing media : Not applicable.

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

Not applicable. Inorganic material. Non-combustible.

### 5.3. Advice for firefighters

No particular measures required.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.  
Danger of slipping on spilled product.

### 6.2. Environmental precautions

Do not allow to enter drains / surface water / ground water. Prevent the spreading of the product into the environment by diking with sand or other absorbent material.  
Contact the authorities in the event of large product spillage to water courses or sewage systems or if spillage has contaminated soil.

### 6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material for example sand.  
Remove last traces by diluting with plenty of (warm) water.

### 6.4. Reference to other sections

see section(s) : SECTION 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes, skin and clothing.  
Wear protective equipment, see also section 8.  
Eye wash facilities should be readily available.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep packaging / storage vessel closed.  
Protect from freezing.  
Keep away from acids.  
Compatible materials : (Stainless) steel.  
Incompatible materials : Zinc, Tin, Aluminum, Copper and their alloys.  
See also title 10

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### 7.3. Specific end use(s)

Only to be used in combination with Aquazinga Powder

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No particular measures required.

### 8.2. Exposure controls

Eye protection	:	Wear suitable tightly fitting goggles.
Skin and body protection	:	Wear suitable protective clothing and alkaline resistant gloves (PVC, rubber or natural latex) tested according to EN 374.
Respiratory protection	:	In the eventual risk of spray, avoid inhalation of spray.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	:	Liquid.
Colour	:	Colourless to translucent.
Odour	:	Odourless.
Odour threshold	:	Not applicable
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	0 to -12°C
Freezing point	:	0 to -12°C
Boiling point	:	± 100°C
Flash point	:	Not applicable
Self ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	Similar to H <sub>2</sub> O
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1,15 – 1,30 g/cm <sup>3</sup>
Solubility	:	Soluble in water.
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	Not applicable
Oxidising properties	:	Not applicable
Explosive limits	:	Not applicable

### 9.2. Other information

No data.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

See section 10.3

### 10.2. Chemical stability

Stable under recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Aqueous solutions will react with aluminium, zinc, tin, copper and their alloys evolving hydrogen gas which can form an explosive mixture with air. Exothermic reaction if in contact with acids

### 10.4. Conditions to avoid

Avoid contact in concentrated form with acids.

### 10.5. Incompatible materials

Avoid contact with aluminum, tin, copper and their alloys.

### 10.6. Hazardous decomposition products

No additional information available

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

The hazard of sodium silicates, by all routes, comes from its alkalinity.

**Ingestion:** Oral LD50 (rat): 6.800 mg/kg bw  
**Inhalation:** In case of inhalation, irritation of the respiratory system can be expected. Inhalation LC50 (rat) > 4,00 g/m3.  
**Skin contact:** Slightly irritating, not classified as harmful.  
**Eye contact:** Slightly irritating, not classified as harmful.

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Effects on fertility: NOAEL (rat) > 318 mg/kg bw/d.  
Developmental toxicity: NOAEL (mouse) > 400 mg/kg bw/d.  
Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : Not classified  
Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Acute fish toxicity (Brachydanio rerio): LC50 (96 hour): 2216 mg/l  
Acute invertebrates toxicity (Daphnia magna): EC50 (48 hour): 3400 mg/l  
Algae / cyanobacteria (Scenedesmus subspicatus): EC50 (72 h, biomass): 414 mg/L, EC50 (72 h, growth rate): > 690 mg/L

#### 12.2. Persistence and degradability

Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and others to end up as insoluble compounds similar to constituents of natural soils.

#### 12.3. Bioaccumulative potential

Inorganic. The substance has no potential for bioaccumulation.

#### 12.4. Mobility in soil

Not applicable

#### 12.5. Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

#### 12.6. Other adverse effects

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal according national or regional regulations, neutralisation prior to disposal is advisory.  
Dispose contaminated packaging according national or regional regulations, preliminary cleaning with water is advisory.  
EWC (European Waste Catalog) -number : 06 02 99

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

#### 14.1. UN number

No applicable

#### 14.2. UN proper shipping name

No applicable

#### 14.3. Transport hazard class(es)

No applicable

#### 14.4. Packing group

No applicable

#### 14.5. Environmental hazards

Not classified as a marine pollutant

#### 14.6. Special precautions for user

See title 7.2. for incompatible materials

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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

**TSCA inventory status:** reported/included

**AICS inventory status:** reported/included

**DSL/NDSL inventory status:** reported/included

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Data sources : Manufacturer/Supplier.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

MSDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*