

Trade name: Comp. "A" Sodium Waterglass

Date revised: 14.07.15

Version: 1 / WORLD

Date of printing: 28.07.15

01. Identification of the substance/preparation and of the company/undertaking

Trade name

Comp. "A" Sodium Waterglass

Use of the substance/preparation

Adhesives and binders (bonding of dusts, powders and mineralic substances), Binders for welding consumables (flux, stick electrodes)

Company/undertaking identification

Address

Fluvius GmbH
Schiessstrasse 56
D-40549Düsseldorf
Tel.: +49 (0) 211 - 69 16 82 0
Fax: +49 (0) 211 - 69 16 82 19

Emergency number

+49 (0) 211 - 69 16 82 0

02. Hazards identification

Classification

Classification Xi, R38-R41

Hazard symbols

Xi Irritant

R phrases

38 Irritating to skin.
41 Risk of serious damage to eyes.

03. Composition / information on ingredients

Chemical characterization

Sodium silicate with a molar ratio Na₂O : SiO₂ = 1 : > 1.60 - < 2.60

Hazardous ingredients

Silicic acid, sodium salt (Molar ratio Na₂O : SiO₂ = 1 : > 1.6 - < 2.6)

CAS no.	1344-09-8				
EINECS no.	215-687-4				
Concentration	25	-	50	%	
Classification	Xi, R38-R41				

04. First aid measures

General information

No special measures required.

After inhalation

Not hazardous by inhalation.

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After skin contact

Wash off immediately with soap and plenty of water. Remove immediately adhering matter. Consult a doctor if skin irritation persists.

After eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Eye treatment by an Oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

Hints for the physician / hazards

This product contains alkali silicate.

05. Fire-fighting measures**Suitable extinguishing media**

No special measures required.

Non Suitable extinguishing media

None.

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

None. The product itself does not burn.

Special protective equipment for fire-fighting

Standard procedure for chemical fires.

06. Accidental release measures**Personal precautions**

Use personal protective equipment. Take off immediately all contaminated clothing and have a shower then.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

07. Handling and storage**Handling****Advice on safe handling**

Wear personal protective equipment. Open and handle container with care. Avoid contact with skin and eyes.

Storage**Requirements for storage rooms and vessels**

Keep only in original container.

Further information on storage conditions

Protect from freezing.

Recommended storage temperature

Value 5 - 45 °C

VCI storage category

VCI storage category 12 Non-combustible liquids

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Storage stability

Under correct storing conditions the product is stable for at least 12 month.

08. Expose controls/personal protection**General protective and hygiene measures**

Observe the usual precautions when handling chemicals. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke during work time.

Occupational exposure controls**Respiratory protection**

When spraying. Respirator with B filter.

Hand protectionKCL Lapren 706 / 0.6mm / 480 Min.
Appropriate Material Latex.**Eye protection**

Safety glasses with side protection shield

Skin protection

Impermeable protective clothing; Remove and wash contaminated clothing before re-use.

09. Physical and chemical properties**General information**

Form	liquid, clear
Colour	colourless to slightly yellow
Odour	odourless

Important health, safety and environmental information**Flash point**

Remarks Does not ignite.

Boiling point

Value appr. 100 °C

Vapour pressure

Remarks not determined

DensityValue appr. 1.55 kg/l
temperature 20 °C**Viscosity**Value appr. 600 mPa.s
temperature 20 °C**Solubility in water**

Remarks Completely miscible

pH

Value 13 to 14

Solids content

Value appr. 46 %

10. Stability and reactivity**Conditions to avoid**

Do not freeze.

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Materials to avoid

Reacts with aluminium, zinc and alloys of these metals with liberation of hydrogen, which is flammable and forms an explosive mixture with air. Acids

Hazardous decomposition products

Hydrogen, by reaction with metals.

11. Toxicological information**Acute toxicity / further data****Acute oral toxicity**

Remarks	The toxicological data shown are those obtained from tests on products of similar composition.
Reference substance	Silicic acid, sodium salt (Molar ratio Na ₂ O : SiO ₂ = 1 : 2.0; 40-50%)
Species	rat
LD50	> 2000 mg/kg
Source	IUCLID
Reference substance	Silicic acid, sodium salt (Molar ratio Na ₂ O : SiO ₂ = 1 : 3.2-3.4; 35-40%)
Species	rat
LD50	> 2000 mg/kg
Source	IUCLID
Reference substance	Silicic acid, potassium salt (Molar ratio K ₂ O : SiO ₂ = 1 : 3.9-4.0; 28-30%)
Species	rat
LD50	> 2000 mg/kg
Source	IUCLID
Remarks	The poisonous effect of the product is caused by its basicity and not by substance-specific systemic characteristics. The LD50 value is of no practical significance due to the caustic effect of the product.

Irritant/corrosive effects**Irritant effect on skin**

valuation irritant

Irritant effect on eyes

valuation irritant - risk of serious damage to eyes

Sensitization

Remarks None.

Effects after repeated or prolonged exposition (subacute, subchronic, cronic)**Experience in practice**

Local irritation.

Other information

Health injuries are not known or expected under normal use.

12. Ecological information**Fish toxicity**

Remarks	Ecotoxicological data are taken from type-similar comparable products.
Reference substance	Silicic acid, sodium salt (Molar ratio Na ₂ O : SiO ₂ = 1 : 3.36; 35%)
Species	Brachidanio rerio
LC50	> 2000 mg/l
Duration of exposure	96 h
Source	IUCLID
Reference substance	Silicic acid, potassium salt (Molar ratio K ₂ O : SiO ₂ = 1 : 3.9-4.0; 29%)
Species	Leuciscus idus
LC0	> 500 mg/l
Duration of exposure	48 h

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Source IUCLID
Remarks The ecotoxic effect of the product is based mainly on its alkalinity.

Daphnia toxicity

Remarks Ecotoxicological data are taken from type-similar comparable products.
Reference substance Silicic acid, sodium salt (Molar ratio Na₂O : SiO₂ = 1 : 3.2; 35%)
Species Daphnia magna
EC₀ > 2000 mg/l
Duration of exposure 48 h

Source IUCLID
Reference substance Silicic acid, potassium salt (Molar ratio K₂O : SiO₂ = 1 : 3.9-4.0; 29%)
Species Daphnia magna
EC₀ > 500 mg/l
Duration of exposure 24 h

Source IUCLID
Remarks The ecotoxic effect of the product is based mainly on its alkalinity.

Bacteria toxicity

Remarks Ecotoxicological data are taken from type-similar comparable products.
Reference substance Silicic acid, sodium salt (Molar ratio Na₂O : SiO₂ = 1 : 3.36; 35%)
Species Pseudomonas putida
EC₀ > 1000 mg/l
Duration of exposure 48 h

Source IUCLID
Remarks The ecotoxic effect of the product is based mainly on its alkalinity.

Biodegradability

Remarks Decomposition: n.a., inorganic substances.

Behaviour in sewers [waste treatment plants]

When low concentrations are discharged correctly into adapted biological sewage treatment plants, disturbance of the degradation activity of activated sludge is not likely.

13. Disposal considerations**Disposal recommendations for the product**

EWC waste code 06 02 05* other bases
Dilution and neutralisation with acid. After consolidation (for example solidification to CaSiO₃), storage on a suitable deposit in accordance with local authorities. Reuse without working up in case product is not solid.

Disposal recommendations for packaging

Tanks to be returned to the supplier.
Cleaned and empty drums can be returned to the supplier.

14. Transport information**Land transport ADR/RID**

Remarks Not classified as dangerous in the meaning of transport regulations.

Marine transport IMDG/GGVSee

Remarks Not classified as dangerous in the meaning of transport regulations.

Air transport ICAO/IATA

Remarks Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information**Labelling in accordance with EC directives**

The product is classified and labelled in accordance with EC Directive 99/45/EC.
Labelling on the basis of results obtained from toxicological examinations.

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Hazard symbols

Xi Irritant

Hazardous component(s) to be indicated on label

R phrases

38 Irritating to skin.
41 Risk of serious damage to eyes.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Water Hazard Class (Ger.)

Water Hazard Class /*D only*/Water contaminating class 1 (self classification).
(Ger.)

16. Other information

Other information

For industrial application only.
Consult labels and product data sheet if applicable

R-phrases of the ingredients listed in chapter 2

38 Irritating to skin.
41 Risk of serious damage to eyes.

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.