

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name: **AQUACORR SI**

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

Relevant identified uses: high-performance silicate corrosion inhibitor for sealed old and new water installations.

Uses advised against: not determined.

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

Manufacturer: **Procold s.c. A.Stasik, M.Szymczak**

Address: Leszczyce 10, 63-200 Jarocin, Poland

Telephone: +48 506 291 441

E-mail address for a competent person responsible for sds: biuro@procold.pl

**1.4 Emergency telephone number**

112

**Section 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Skin Irrit. 2 H315, Eye Irrit. 2 H319**

Causes skin irritation. Causes serious eye irritation.

**2.2 Label elements**

Hazard pictograms and signal words



**WARNING**

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container to properly labeled waste containers in accordance with national legislation.

**2.3 Other hazards**

The product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

### Section 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable.

#### 3.1 Mixtures

Numer CAS: 1344-09-8 Numer WE: 215-687-4 Numer indeksowy: - Numer rejestracji właściwej: 01-2119448725-31-XXXX	<u>silicic acid, sodium salt with MR module &gt; 2.6 ≤ 3.2</u> Skin Irrit. 2 H315, Eye Irrit. 2 H319 (Inorganic substance of the UVCB type. It is a composition of oligomers of SiO <sub>4</sub> silicate anions combined with sodium cations. The structure of the substance and its properties depend on the molar ratio of SiO <sub>2</sub> to Na <sub>2</sub> O, otherwise known as the MR molar modulus)	31 – 35 %
Numer CAS: 64-02-8 Numer WE: 200-573-9 Numer indeksowy: 607-428-00-2 Numer rejestracji właściwej: 01-2119486762-27-XXXX	<u>tetrasodium ethylene diamine tetraacetate</u> Acute Tox. 4 H302, Eye Dam. 1 H318, Acute Tox. 4 H332	1,2 %

Full text of each relevant H phrases is given in section 16 of SDS.

### Section 4: First aid measures

#### 4.1 Description of first aid measures

Skin contact: take off contaminated clothes, rinse off contaminated skin thoroughly with water. Consult a doctor, if disturbing symptoms occur. Wash clothes before reuse.

Eye contact: rinse contaminated eyes with water for a few minutes with eyelids wide open. Avoid strong stream of water – risk of damage of the cornea. Protect non-irritated eye, remove contact lenses. Consult an ophthalmologist if disturbing symptoms occur.

Ingestion: rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor, if disturbing symptoms occur.

Inhalation: consult a doctor if disturbing symptoms occur. Remove the victim to fresh air, keep warm and calm.

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

Skin contact: redness, burning sensation, dryness, irritation

Eye contact: redness, tearing, burning sensation, irritation.

Ingestion: possible irritation of the digestive tract, abdominal pain, nausea, vomiting.

Inhalation: no adverse effects are expected.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

### Section 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: water spray, foam, extinguishing powder, CO<sub>2</sub>. Adjust extinguishing media to the surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

**5.2 Special hazards arising from the substance or mixture**

During combustion harmful gases consisting of carbon oxides and other unidentified products of thermal decomposition may be produced. Do not inhale combustion products, it may cause health risk.

**5.3 Advice for firefighters**

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. In case of fire cool endangered containers with water spray from safe distance. Collect used extinguishing media.

**Section 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of a large breakdown, isolate the exposed area. Use personal protective equipment. Avoid skin and eyes contamination.

**6.2 Environmental precautions**

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

**6.3 Methods and material for containment and cleaning up**

Collect leakage using liquid binding materials (eg. sand, earth, universal binders, silica) and place it in correctly labelled containers. Treat collected material as waste. Clean and ventilate the contaminated area.

**6.4 Reference to other sections**

Appropriate conduct with waste product – section 13. Personal protection equipment – section 8.

**Section 7: Handling and storage**

**7.1 Precautions for safe handling**

Handle in accordance with good occupational hygiene and safety practices. Ensure adequate ventilation. Avoid skin and eyes contamination. Wash hands before breaks and after work. Do not eat, drink or smoke at the workplace. Use personal protective equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in tightly closed, properly labeled containers in a cool and well-ventilated area. Keep away from food and feed for animals. Do not store with incompatible materials (see subsection 10.5). Recommended storage temperature > 10 ° C. Store larger quantities in thermally insulated steel tanks. Store smaller amounts in metal or plastic drums. Do not store in containers made of or covered with zinc or aluminum.

**7.3 Specific end use(s)**

No information about uses other than mentioned in subsection 1.2.

**Section 8: Exposure controls/personal protection**

**8.1 Control parameters**

Product does not contain any components with occupational exposure limit values at working place.

Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

#### DNEL value

silicic acid, sodium salt with MR module > 2.6 ≤ 3.2 [CAS 1344-09-8]

Worker				
Route of exposure	Short-term exposure, systematic	Short-term exposure, local	Long-term exposure, systematic	Long-term exposure, local
Inhalation	—	—	5,61 mg/m <sup>3</sup>	—
Skin	—	—	1,59 mg/kg m.c./ dzień	—
Consumer				
Route of exposure	Short-term exposure, systematic	Short-term exposure, local	Long-term exposure, systematic	Long-term exposure, local
Inhalation	—	—	1,38 mg/m <sup>3</sup>	—
Skin	—	—	0,8 mg/kg m.c./ dzień	—
Oral	—	—	0,8 mg/kg m.c./ dzień	—

#### PNEC value

silicic acid, sodium salt with MR module > 2.6 ≤ 3.2 [CAS 1344-09-8]

	PNEC
fresh water	7,5 mg/l
marine water	1,0 mg/l
intermittent release	7,5 mg/l
sewage treatment plant	348 mg/l

## 8.2 Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. Ensure adequate ventilation. Do not eat, drink or smoke at the workplace. Wash hands before breaks and after work. Avoid skin and eyes contamination.

#### Hand and body protection

Use protective gloves and protective clothing. Recommended rubber gloves with a effectiveness level 6 (> 480 minutes). The material for gloves should be selected individually at the workplace.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

#### Eye protection

Use protective glasses.

#### Respiratory protection

Not required in case of sufficient ventilation. In case of failure wear suitable respiratory protection.

Applied personal protective equipment must comply with the requirements of the Regulation 2016/425/EU. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

#### Environmental exposure controls

Avoid direct runoff to drains / surface waters. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of the environmental law.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

physical state:	liquid
colour:	gray-green
odour:	odorless
odour threshold:	not applicable
pH (20 °C):	ab. 12
melting point/freezing point:	not determined
initial boiling point and boiling range:	not determined
flash point:	not flammable product
evaporation rate:	not determined
flammability (solid, gas):	not applicable
upper/lower flammability or explosive limits :	not applicable
vapour pressure:	not determined
vapour density:	not determined
density:	1310 – 1350 kg/m <sup>3</sup>
solubility(ies):	soluble in water
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not applicable
decomposition temperature:	not determined
explosive properties:	not display
oxidising properties:	not display
dynamic viscosity (20 °C):	20 – 30 cP

### 9.2 Other information

No additional test results.

## Section 10: Stability and reactivity

### 10.1 Reactivity

Product is reactive. Product does not undergo a dangerous polymerization. See also subsections 10.3 - 10.5

### 10.2 Chemical stability

The product is stable under normal conditions of handling and storage.

### 10.3 Possibility of hazardous reactions

The product reacts exothermically with acids.

### 10.4 Conditions to avoid

Protect against frost.

### 10.5 Incompatible materials

Acids, zinc, lead, aluminum, tin, lead.

### 10.6 Hazardous decomposition products

Not known.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Toxicity of components

silicic acid, sodium salt with MR module > 2.6 ≤ 3.2 [CAS 1344-09-8]

LD<sub>50</sub> (oral, rat) 3400 mg/kg

LD<sub>50</sub> (skin, rat) 5000 mg/kg

LC<sub>50</sub> (inhalation, rat) 2.06 g/m<sup>3</sup>

tetrasodium ethylene diamine tetraacetate [CAS 64-02-8]

LD<sub>50</sub> (oral, rat) > 2000 mg/kg

LC<sub>50</sub> (inhalation, rat) 1000 - 5000 mg/m<sup>3</sup>/6h (OECD 403)

#### Toxicity of the mixture

##### Acute toxicity

The acute toxicity estimate (ATE<sub>mix</sub>) was determined using the appropriate conversion value from Table 3.1.2 in Annex I to CLP as amended.

ATE<sub>mic</sub> (oral) > 2000 mg/kg

ATE<sub>mic</sub> (inhalation) > 20 mg/l

Based on available data, the classification criteria are not met.

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/irritation

Causes serious eye irritation.

##### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

##### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

##### Carcinogenicity

Based on available data, the classification criteria are not met.

##### Reproductive toxicity

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

## Section 12: Ecological information

### 12.1 Toxicity

#### Toxicity of components

silicic acid, sodium salt with MR module > 2.6 ≤ 3.2 [CAS 1344-09-8]

LC<sub>50</sub> (fish) 1108 mg/l/ 96h/ *Brachydanio rerio*

LC<sub>50</sub> (fish) 260 - 310 mg/l/ 96h/ *Oncorhynchus mykiss*

NOEC (fish) 348 mg/l/ 96h/ *Brachydanio rerio*

EC<sub>50</sub> (invertebrates) 1700 mg/l/ 48h/ *Daphnia magna*  
EC<sub>50</sub> (algae) 207 mg/l/ 72h/ *Scenedesmus subspicatus*

**Toxicity of the mixture**

Product is not classified as hazardous for the environment.

**12.2 Persistence and degradability**

Data for components:

tetrasodium ethylene diamine tetraacetate [CAS 64-02-8]

The substance is not easily biodegradable.

**12.3 Bioaccumulative potential**

Data for components:

silicic acid, sodium salt with MR module > 2.6 ≤ 3.2 [CAS 1344-09-8]

Bioaccumulation is not expected.

tetrasodium ethylene diamine tetraacetate [CAS 64-02-8]

BCF: ab. 1.8

Bioaccumulation is not expected.

**12.4 Mobility in soil**

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

**12.5 Results of PBT and vPvB assessment**

The product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

**12.6 Other adverse effects**

The mixture is not classified as hazardous to the ozone layer and global warming.

**Section 13: Disposal considerations**

**13.1 Waste treatment methods**

Disposal methods for the mixture: dispose in accordance with the local legislation. Do not dispose of with municipal waste. Store the remains in original packages. Waste code should be given in the place of its formation.

Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the local legislation. Only completely empty containers can be reused. Waste code should be given in the place of its formation.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

**Section 14: Transport information**

**14.1 UN Number**

Not applicable. The product is not classified as dangerous during land, sea and air transport.

**14.2 UN proper shipping name**

Not applicable.

**14.3 Transport hazard class(es)**

Not applicable.

**14.4 Packing group**

Not applicable.

#### 14.5 Environmental hazards

Not applicable.

#### 14.6 Special precautions for user

Not applicable.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

### Section 15: Regulatory information

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

**Regulation (EC) No 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

**Regulation (EC) No 1272/2008** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

**Commission Regulation (EU) No 2015/830** of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Directive 2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

**Commission Directive 2019/1831/EU** of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

ADR European Agreement concerning the international carriage of dangerous goods by road.

**European Parliament and Council Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

**Commission Directive 2000/39/EC** of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Commission Directive 2006/15/EC** of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

**Commission Directive 2009/161/EU** of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

**Commission Directive 2017/164/EU** of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

**Regulation (EU) No 2016/425** of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

#### 15.2 Chemical safety assessment

It is not necessary to carry out a chemical safety assessment for the mixture.

### Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.



Abbreviations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
Acute Tox. 4	Acute toxicity category 4
Eye Irrit. 2	Serious eye irritation category 2
Skin Irrit. 2	Serious eye irritation category 2
Eye Dam. 1	Serious eye damage category 1
DNEL	Derived No-Effect Level
PNEC	Predicted No Effect Concentration

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and data sources

This SDS was prepared on the basis of the manufacturer's SDS, literature data, online databases as well as our knowledge and experience, taking into account current legislation.

Methods of evaluating information which was used for the purpose of classification

Classification was based on physico-chemical data and data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Additional information

Date of issue: 30.11.2020

Version: 1.0/EN

Safety Data Sheet made by: „**THETA**” Doradztwo Techniczne

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.