19.09.2024Kit Components		
Product code	Description	
CAY643-VxxAAH CA71SI Reagent Set for silicate		
Components:		
51513729	Reagent SI1 for silicate	
51513730	Reagent SI2 for silicate	
51513731	Reagent SI3, Component 1 for silicate	
51513732	Reagent SI3, Component 2 for silicate	
4.160	Standard solution SiO2 0 µg/L	

Printing date 19.09.2024

according to Regulation (EC) No 1907/2006, Article 31

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

### **1.1 Product identifier**

Trade name: <u>Reagent SI1</u> Synonym: for silicate

Article number: 51513729 UFI: CC30-W0PK-400P-MRHQ

**1.2 Relevant identified uses of the substance or mixture and uses advised against Product category** *PC21* Laboratory chemicals

Application of the substance / the mixture Laboratory chemicals

**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen* 

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

1.4 Emergency telephone number: Phone: +49(0)6131-19240

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

**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** 



Signal word Danger

Hazard-determining components of labelling: sulphuric acid sodium hydrogensulphate Hazard statements H314 Causes severe skin burns and eye damage. **Precautionary statements** P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see on this label). P405 Store locked up.

according to Regulation (EC) No 1907/2006, Article 31

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#### Trade name: Reagent SI1

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

#### 2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

#### Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 7664-93-9 EINECS: 231-639-5 Registration number: 01- 2119458838-20-XXXX	sulphuric acid Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	5-10%
CAS: 7681-38-1 EINECS: 231-665-7	sodium hydrogensulphate	2-6%
CAS: 7782-91-4 EINECS: 231-970-5	molybdic acid STOT RE 2, H373;	2-6%
Additional information: For the wording of the listed bazard phrases refer to section 16		

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

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

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

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately. 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced. 5.3 Advice for firefighters No further relevant information available. (Contd. of page 1)

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#### Trade name: Reagent SI1

Protective equipment: Mount respiratory protective device.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Wear protective clothing. 6.2 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Information about fire - and explosion protection: Keep respiratory protective device available.

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

Storage:

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Storage class: 8 B 7.2 Specific and works) No further relevant information available.

7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 7664-93-9 sulphuric acid

IOELV Long-term value: 0.05 mg/m<sup>3</sup>

DNELs

### CAS: 7664-93-9 sulphuric acid

Inhalative DNEL short-term 0.1 mg/m<sup>3</sup> (worker) (local effects) DNEL long-term 0.05 mg/m<sup>3</sup> (worker) (local effects)

PNECs

### CAS: 7664-93-9 sulphuric acid

PNEC 8.8 mg/L (Wastewater treatment plant)

0.25 mg/L (sea water)

PNEC 2.5 µg/L (fresh water)

PNEC 2 µg/kg (marine sediment)

2 μg/kg (freshwater sediment)

Additional information: The lists valid during the making were used as basis.

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#### Trade name: Reagent SI1

#### 8.2 Exposure controls

Appropriate engineering controls *No further data; see section 7.* Individual protection measures, such as personal protective equipment

### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

#### **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

### Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye/face protection



Tightly sealed goggles

Body protection: Protective work clothing

### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties		
General Information		
Physical state	Fluid	
Colour:	Yellow tint	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling		
range	>100 °C	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	

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#### Trade name: Reagent SI1

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pH at 20 °C	<2
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
_	
Appearance: Form:	Liquid
Important information on protection of health	Ечина
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
	Not determined.
Solvent content:	
Water:	81.4 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Öxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void
-	

### **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.
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.

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### Trade name: Reagent SI1

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10.6 Hazardous decomposition products: No dangerous decomposition products known.

### **SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity** *Based on available data, the classification criteria are not met.* 

LD/LC50 values relevant for classification:

### CAS: 7681-38-1 sodium hydrogensulphate

Oral LD50 2,490 mg/kg (rat)

CAS: 7782-91-4 molybdic acid

Oral LD50 2,689 mg/kg (rat)

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation 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.

11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

### **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

### Additional ecological information:

### **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 course or sewage system.

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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

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Trade name: Reagent SI1

European waste catalogue 16 05 06* laboratory chemicals, consisting of laboratory chemicals	or containing hazardous substances, including mixtures of
Uncleaned packaging: Recommendation: Disposal must be made ad Recommended cleansing agents: Water, if r	
<b>SECTION 14: Transport information</b>	
14.1 UN number or ID number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG IATA 14.3 Transport hazard class(es)	UN2796 UN2796 SULPHURIC ACID SULPHURIC ACID Sulphuric acid
ADR	
Class Label	8 (C1) Corrosive substances. 8
e e e e e e e e e e e e e e e e e e e	
Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user Hazard identification number (Kemler code) EMS Number: Segregation groups Stowage Category Segregation Code	8 Corrosive substances. 8 II Not applicable. Warning: Corrosive substances. 9: 80 F-A,S-B (SGG1a) Strong acids B SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
14.7 Maritime transport in bulk according to instruments	
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 E
IMDG Limited quantities (LQ)	1L (Contd. on page

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Trade name: Reagent SI1

**Excepted quantities (EQ)** 

Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 2796 SULPHURIC ACID, 8, II

UN "Model Regulation":

### **SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

Hazard pictograms



Signal word Danger

Hazard-determining components of labelling:

sulphuric acid

sodium hydrogensulphate

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see on this label).
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

### Regulation (EC) No 273/2004 on drug precursors

CAS: 7664-93-9 sulphuric acid

# Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7664-93-9 sulphuric acid

### National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

3

3

according to Regulation (EC) No 1907/2006, Article 31

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#### Trade name: Reagent SI1

(Contd. of page 8) **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Date of previous version: 10.09.2021 Version number of previous version: 6 Abbreviations and acronyms: ADR: Accord relatif au transport international 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 \* Data compared to the previous version altered.

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

### **1.1 Product identifier**

Trade name: <u>Reagent SI2</u> Synonym: for silicate

Article number: 51513730 UFI: 4F30-E0CY-F006-933S

**1.2 Relevant identified uses of the substance or mixture and uses advised against Product category** *PC21* Laboratory chemicals

Application of the substance / the mixture Laboratory chemicals

**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen* 

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

1.4 Emergency telephone number: Phone: +49(0)6131-19240

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Eye Irrit. 2 H319 Causes serious eye irritation.

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



Signal word Warning Hazard statements H319 Causes serious eye irritation. **Precautionary statements** P264 Wash thoroughly after handling. P280 Wear eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

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#### Trade name: Reagent SI2

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### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 77-92-9	citric acid	10-20%
EINECS: 201-069-1	Eye Irrit. 2, H319; STOT SE 3, H335	
Registration number: 01-		
2119457026-42-XXXX		

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

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

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

After skin contact: Generally the product does not irritate the skin.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

### After swallowing: If symptoms persist consult doctor.

**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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters No further relevant information available.

Protective equipment: No special measures required.

### **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.* **6.2 Environmental precautions:** 

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** *No special precautions are necessary if used correctly.* **Information about fire - and explosion protection:** *No special measures required.* 

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according to Regulation (EC) No 1907/2006, Article 31

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#### Trade name: Reagent SI2

7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *Keep container tightly sealed.* Storage class: *12* 

7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Ingredients 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 valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls *No further data; see section 7.* Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

#### Hand protection



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

#### Material of gloves

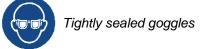
Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye/face protection**



Body protection: Protective work clothing

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Boiling point or initial boiling point and boiling

**SECTION 9: Physical and chemical properties** 

9.1 Information on basic physical and chemical properties

Trade name: Reagent SI2

**General Information Physical state** 

**Odour threshold:** 

Melting point/freezing point:

Colour:

Odour:

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Fluid

Clear

Odourless

Not determined.

Undetermined.

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Bolling point of initial bolling point and bolling	
range	>100 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	1 °C
Decomposition temperature:	Not determined.
pH at 20 °C	<2
Viscosity:	~2
Kinematic viscosity	Not determined.
	Not determined.
Dynamic:	Not determined.
Solubility	Fully missible
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1.096 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health	2.90.0
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
	Not determined.
Solvent content:	Not determined.
Water:	84.3 %
Solids content:	0.0 %
Change in condition	0.0 //
Evaporation rate	Not determined.
•	Not determined.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
· ·	

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according to Regulation (EC) No 1907/2006, Article 31

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Trade name: Reagent SI2

Self-heating substances and mixtures Vo Substances and mixtures, which emit flammable	(Contd. of page 4)
gases in contact with water Vo	bid
Oxidising liquids Vo	pid
Oxidising solids Vo	bid
Organic peroxides Vo	bid
Corrosive to metals Vo	bid
Desensitised explosives Vo	bid

### **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

### LD/LC50 values relevant for classification:

CAS: 77-92-9 citric acid

Oral LD50 5,040 mg/kg (mouse)

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Causes serious eye irritation.

**Respiratory or skin sensitisation** 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.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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#### Trade name: Reagent SI2

#### 12.7 Other adverse effects Additional ecological information: 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 course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Recommendation

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

### European waste catalogue 16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of

### laboratory chemicals

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### **SECTION 14: Transport information**

14.1 UN number or ID number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es)	Void Void
ADR, ADN, IMDG, IATA Class 14.4 Packing group ADR, IMDG, IATA	Void Void
14.5 Environmental hazards: 14.6 Special precautions for user	Not applicable. Not applicable.
14.7 Maritime transport in bulk according to IMO instruments UN "Model Regulation":	Not applicable. Void

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

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



Signal word WarningHazard statementsH319 Causes serious eye irritation.Precautionary statementsP264Wash thoroughly after handling.

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according to Regulation (EC) No 1907/2006, Article 31

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#### Trade name: Reagent SI2

P280	(Contd. of page 6
	Wear eye protection / face protection. 38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
	18/EU ous substances - ANNEX I None of the ingredients is listed. (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
	1/65/EU on the restriction of the use of certain hazardous substances in electrical equipment – Annex II
None of the ingr	edients is listed.
<b>REGULATION (</b>	EU) 2019/1148
Annex I - REST under Article 5	RICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing (3))
None of the ingr	edients is listed.
Annex II - REPO	ORTABLE EXPLOSIVES PRECURSORS
None of the ingr	edients is listed.
Regulation (EC	) No 273/2004 on drug precursors
None of the ingr	edients is listed.
	) No 111/2005 laying down rules for the monitoring of trade between the Community tries in drug precursors
None of the ingr	edients is listed.
National regula	itions:
Waterhazard cl	ass: Water hazard class 1 (Self-assessment): slightly hazardous for water. safety assessment: A Chemical Safety Assessment has not been carried out.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Date of previous version: 10.09.2021 Version number of previous version: 4 Abbreviations and acronyms: ADR: Accord relatif au transport international 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 PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 \* Data compared to the previous version altered.

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according to Regulation (EC) No 1907/2006, Article 31

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

### **1.1 Product identifier**

Trade name: <u>Reagent SI3, Component 1</u> Synonym: for silicate

Article number: *51513731* UFI: 2Q30-X0F5-C00P-83UY

**1.2 Relevant identified uses of the substance or mixture and uses advised against Product category** *PC21* Laboratory chemicals

Application of the substance / the mixture Laboratory chemicals

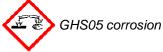
**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** *Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen* 

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

1.4 Emergency telephone number: Phone: +49(0)6131-19240

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Eye Dam. 1 H318 Causes serious eye damage.

#### **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**



### Signal word Danger

Hazard-determining components of labelling:

disodium disulphite

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

- P103 Read carefully and follow all instructions.
- P280 Wear eye protection / face protection.

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

Immediately call a POISON CENTER/doctor.

### Additional information:

P310

EUH031 Contact with acids liberates toxic gas.

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### Trade name: Reagent SI3, Component 1

#### 2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

Bungerous components.		
CAS: 7681-57-4	disodium disulphite	10-20%
EINECS: 231-673-0	🔶 Eye Dam. 1, H318; 🚸 Acute Tox. 4, H302, EUH031	
Registration number: 01-	• • • • •	
2119531326-45-XXXX		
 Additional information, Earthau	vording of the listed bezord phrases refer to section 16	

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

### **SECTION 4: First aid measures**

4.1 Description of first aid measures

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

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: If symptoms persist consult doctor.

#### **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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters No further relevant information available.

Protective equipment: Mount respiratory protective device.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
6.2 Environmental precautions: Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
6.4 Reference to other sections See Section 7 for information on safe handling.

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### Trade name: Reagent SI3, Component 1

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** *No special precautions are necessary if used correctly.* **Information about fire - and explosion protection:** *No special measures required.* 

7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Do not store together with acids. Further information about storage conditions: Keep container tightly sealed. Storage class: 12

7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Ingredients 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 valid during the making were used as basis.

8.2 Exposure controls Appropriate engineering controls *No further data; see section 7.* Individual protection measures, such as personal protective equipment

### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

### Hand protection

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

### Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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### Trade name: Reagent SI3, Component 1

### Eye/face protection



Tightly sealed goggles

Body protection: Protective work clothing

### **SECTION 9: Physical and chemical properties**

, , ,			
9.1 Information on basic physical and chemical properties			
General Information			
Physical state	Fluid		
Colour:	Colourless		
Odour:	Recognisable		
Odour threshold:	Not determined.		
Melting point/freezing point:	Undetermined.		
Boiling point or initial boiling point and boiling			
range	>100 °C		
Flammability	Not applicable.		
Lower and upper explosion limit			
Lower:	Not determined.		
Upper:	Not determined.		
Flash point:	Not applicable.		
Decomposition temperature:	Not determined.		
pH at 20 °C	3-5		
•	3-0		
Viscosity:	Not doto main o d		
Kinematic viscosity	Not determined.		
Dynamic:	Not determined.		
Solubility			
water:	Fully miscible.		
Partition coefficient n-octanol/water (log value)	Not determined.		
Vapour pressure at 20 °C:	23 hPa		
Density and/or relative density			
Density at 20 °C:	1.035 g/cm³		
Relative density	Not determined.		
Vapour density	Not determined.		
9.2 Other information			
Appearance:			
Form:	Fluid		
	Fluid		
Important information on protection of health			
and environment, and on safety.	Draduct is not colfigniting		
Ignition temperature:	Product is not selfigniting.		
Explosive properties:	Product does not present an explosion hazard.		
Column contents	Not determined.		
Solvent content:	04.4.9/		
Water:	84.4 %		
Solids content:	0.0 %		
Change in condition			
Evaporation rate	Not determined.		
Information with regard to physical hazard			
classes			
Explosives	Void		
Flammable gases	Void		
Aerosols	Void		
Oxidising gases	Void		
Gases under pressure	Void		
Cases under pressure	(Contd. on		

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### Trade name: Reagent SI3, Component 1

		(Contd. of page 4)
Flammable liquids	Void	( i <b>č</b> ,
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamn	nable	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

### **SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eve damage/irritation Causes serious eve damage.

**Respiratory or skin sensitisation** 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.

11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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Trade name: Reagent SI3, Component 1

#### 12.7 Other adverse effects Additional ecological information: 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 course or sewage system.

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

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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

#### European waste catalogue

16 05 06<sup>\*</sup> laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

#### **Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### **SECTION 14: Transport information**

14.1 UN number or ID number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es)	Void Void	
ADR, ADN, IMDG, IATA Class 14.4 Packing group ADR, IMDG, IATA	Void Void	
14.5 Environmental hazards: 14.6 Special precautions for user	Not applicable. Not applicable.	
14.7 Maritime transport in bulk according to IMO		
instruments UN "Model Regulation":	Not applicable. Void	

### **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

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



Signal word Danger

Hazard-determining components of labelling: disodium disulphite Hazard statements H318 Causes serious eye damage. Revision: 19.09.2024

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### Trade name: Reagent SI3, Component 1

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Precautionary st	atements	
P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read carefully and follow all instructions.	
P280	Wear eye protection / face protection.	
P305+P351+P338	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor.	
Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3		
	/65/EU on the restriction of the use of certain hazardous substances in electrical quipment – Annex II	
None of the ingre	dients is listed.	
<b>REGULATION (E</b>	U) 2019/1148	
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))		
None of the ingre	dients is listed.	
Annex II - REPO	RTABLE EXPLOSIVES PRECURSORS	
None of the ingre	dients is listed.	

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

#### National regulations:

**Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Date of previous version: 10.09.2021 Version number of previous version: 4 Abbreviations and acronyms: ADR: Accord relatif au transport international 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 \* Data compared to the previous version altered.

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

### **1.1 Product identifier**

Trade name: <u>Reagent SI3, Component 2</u> Synonym: for silicate

Article number: 51513732

**CAS Number:** 55-55-0 **EC number:** 200-237-1

Index number: 650-031-00-4

#### **Registration number**

A registration number for this substance is not available because the substance or its use is exempted from registration, the annual tonnage does not require registration or registration is foreseen for a later date.

UFI: TS30-F04J-P005-XFF1

**1.2 Relevant identified uses of the substance or mixture and uses advised against Product category** *PC21* Laboratory chemicals

Application of the substance / the mixture Laboratory chemicals

#### **1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

### Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: Phone: +49(0)6131-19240

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



STOT RE 2

GHS08 health hazard

H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Acute Tox. 4H302 Harmful if swallowed.Skin Sens. 1H317 May cause an allergic skin reaction.

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#### Trade name: Reagent SI3, Component 2

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2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms



Signal word Warning

Hazard-determining components of labelling: bis(4-hydroxy-N-methylanilinium) sulfate **Hazard statements** H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. **Precautionary statements** Do not breathe dust/fume/gas/mist/vapours/spray. P260 P280 Wear protective gloves. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. **Results of PBT and vPvB assessment PBT:** Not applicable. **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

3.1 Substances CAS No. Description CAS: 55-55-0 bis(4-hydroxy-N-methylanilinium) sulfate Identification number(s) EC number: 200-237-1 Index number: 650-031-00-4

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

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

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#### Trade name: Reagent SI3, Component 2

After swallowing: Call for a doctor immediately.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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

**5.3 Advice for firefighters** *No further relevant information available.* 

Protective equipment: Mount respiratory protective device.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device. Wear protective clothing.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** *Ensure good ventilation/exhaustion at the workplace.* **Information about fire - and explosion protection:** *Keep respiratory protective device available.* 

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *None.* Storage class: *11* 7.3 Specific end use(s) *No further relevant information available.* 

### **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:** *Not required.* **Additional information:** *The lists valid during the making were used as basis.* 

#### 8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

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### Trade name: Reagent SI3, Component 2

#### Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately.

#### **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection

W2 F

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. No chemical-protective gloves required.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Nitrile rubber, NBR

Natural rubber, NR Chloroprene rubber, CR

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye/face protection



Tightly sealed goggles

Body protection: Protective work clothing

### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties		
General Information	0 // /	
Physical state	Solid	
Colour:	Cream coloured	
Odour:	Odourless	
Odour threshold:	Not determined.	
Melting point/freezing point:	260 °C (Decomposition)	
Boiling point or initial boiling point and boiling		
range	Undetermined.	
Flammability	Product is not flammable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
pH	Not applicable.	
Viscosity:		
Kinematic viscosity	Not applicable.	

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according to Regulation (EC) No 1907/2006, Article 31

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#### Trade name: Reagent SI3, Component 2

	(Contd. of page 4)
Dynamic:	Not applicable.
Solubility	
water at 20 °C:	50 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	0.7 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not applicable.
Particle characteristics	See section 3.
9.2 Other information	
Appearance:	
Form:	Powder
Important information on protection of health	
and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
	Not determined.
Solids content:	100.0 %
Molecular weight	344.39 g/mol
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids Flammable solids	Void
Self-reactive substances and mixtures	Void Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

### **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.

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.

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Version 8 (replaces version 7)

### Trade name: Reagent SI3, Component 2

(Contd. of page 5)

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation May cause an allergic skin reaction. 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 May cause damage to organs through prolonged or repeated exposure. Aspiration hazard Based on available data, the classification criteria are not met.

### Endocrine disrupting properties

Substance is not listed.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

Remark: Very toxic for fish

Additional ecological information:

#### **General notes:**

Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

### Recommendation

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

### European waste catalogue

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### **SECTION 14: Transport information**

14.1 UN number or ID number ADR, IMDG, IATA

UN3077

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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11111111111111111111111111111111111111	
rade name: Reagent SI3, Componen	
11.2 LIN proper chipping name	(Contd. of page 6
14.2 UN proper shipping name ADR	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bis(4-hydroxy-N- methylanilinium) sulfate)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulfate)
ΙΑΤΑ	Environmentally hazardous substance, solid, n.o.s. (containing bis(4-hydroxy-N-methylanilinium) sulfate)
14.3 Transport hazard class(es)	
ADR	
Class	9 (M7) Miscellaneous dangerous substances and articles.
	9
Class	9 Miscellaneous dangerous substances and articles.
Label 14.4 Packing group	9
ADR, IMDG, IATA	<i>III</i>
14.5 Environmental hazards: Marine pollutant:	Yes
-	Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and
Hazard identification number (Ken	articles. er code): 90
EMS Number:	F-A,S-F
Stowage Category Stowage Code	A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
14.7 Maritime transport in bulk acc instruments	rding to IMO Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
Transport category	3 E
Tunnel restriction code Remarks:	
IMDG	
Limited quantities (LQ)	5 kg (Contd. on page 8 EU

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### Trade name: Reagent SI3, Component 2

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Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS
-	SUBSTANCE, SOLID, N.O.S. (BIS(4-HYDROXY-N-
	METHYLANILINIUM) SULFATE), 9, III

### **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation. Hazard pictograms



### Signal word Warning

#### Hazard-determining components of labelling:

bis(4-hydroxy-N-methylanilinium) sulfate

#### Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

#### P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

### **REGULATION (EU) 2019/1148**

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

### Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

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#### Trade name: Reagent SI3, Component 2

National regulations:

**Waterhazard class:** Water hazard class 3 (Assessment by list): extremely hazardous for water. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Date of previous version: 10.09.2021 Version number of previous version: 7 Abbreviations and acronyms: ADR: Accord relatif au transport international 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Sens. 1: Skin sensitisation - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 \* Data compared to the previous version altered.

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according to Regulation (EC) No 1907/2006, Article 31

Version 9 (replaces version 8)

Endress+Hauser 🖪

People for Process Automation

Revision: 19.09.2024

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

### **1.1 Product identifier**

Trade name: <u>Standard solution SiO2</u> <u>0 μg/l</u> Synonym: 0 μg/L

CAS Number: 7732-18-5

EC number: 231-791-2

#### **Registration number**

A registration number for this substance is not available because the substance or its use is exempted from registration, the annual tonnage does not require registration or registration is foreseen for a later date.

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against Product category** *PC21* Laboratory chemicals

Application of the substance / the mixture Laboratory chemicals

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

Manufacturer/Supplier: Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

#### Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

1.4 Emergency telephone number: Phone: +49(0)6131-19240

### **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008** *The substance is not classified, according to the CLP regulation.* 

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

3.1 Substances CAS No. Description CAS: 7732-18-5 water Identification number(s) EC number: 231-791-2

(Contd. on page 2)

Trade name: Standard solution SiO2

(Contd. of page 1)

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### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General information: No special measures required.

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

After skin contact: Generally the product does not irritate the skin.

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

After swallowing: If symptoms persist consult doctor. 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 extinguishing methods suitable to surrounding conditions. **For safety reasons unsuitable extinguishing agents:** no further information

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters No further relevant information available.

Protective equipment: No special measures required.

### **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.* **6.2 Environmental precautions:** *Dilute with plenty of water.* 

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** *No special measures required.* **Information about fire - and explosion protection:** *No special measures required.* 

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *None.* Storage class: *12* 7.3 Specific and use(s) *No further relevant information available.* 

**7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters Ingredients with limit values that require monitoring at the workplace:** *Not required.* **Additional information:** *The lists valid during the making were used as basis.* 

**8.2 Exposure controls Appropriate engineering controls** *No further data; see section 7.* 

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#### Trade name: Standard solution SiO2

#### Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

#### Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Not required.

Body protection: Protective work clothing

### **SECTION 9: Physical and chemical properties**

, , , , , , , , , , , , , , , , , , , ,	
9.1 Information on basic physical and chemical p	properties
General Information	
Physical state	Fluid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	0°C
Boiling point or initial boiling point and boiling	
range	100 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	0.952 mPas
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
0.2 Other information	
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health	
and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
	Not determined.
Water:	100.0 %
Solids content:	0.0 %
Molecular weight	18.02 g/mol
	(Contd. on

(Contd. on page 4)

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Trade name: Standard solution SiO2

		(Contd. of page 3)
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard		
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable	e	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

### **SECTION 10: Stability and reactivity**

**10.1 Reactivity** *No further relevant information available.* 

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation 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.

#### **Endocrine disrupting properties**

Substance is not listed.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

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### Trade name: Standard solution SiO2

12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects
Additional ecological information:
General notes: Not hazardous for water.

### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods
Recommendation
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Smaller quantities can be disposed of with household waste.

#### **Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### **SECTION 14: Transport information**

14.1 UN number or ID number ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es)	Void Void
ADR, ADN, IMDG, IATA Class 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards:	Void Void
Marine pollutant: 14.6 Special precautions for user 14.7 Maritime transport in bulk according to IMC instruments	No Not applicable. Not applicable.
Transport/Additional information: UN "Model Regulation":	Not dangerous according to the above specifications. Void

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 *Void* Hazard pictograms *Void* Signal word *Void* Hazard statements *Void* Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

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Version 9 (replaces version 8)

Revision: 19.09.2024

### Trade name: Standard solution SiO2

### **REGULATION (EU) 2019/1148**

## Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

### Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 16.3 Recommended restriction of use

Department issuing SDS: PCC-TWR Contact: MSDS.pcc@endress.com Date of previous version: 10.09.2021 Version number of previous version: 8 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods (MTA: 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.

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