07/17/2023 Kit Components		
Product code	Description	
CAY640-VxxAAH	CA70SI Reagent Set for silicate	
Components:		
51508826 Reagent SI1 for silicate		
51508827	Reagent SI2 for silicate	

51509864_1

51509864_2

Reagent SI3, Component 1 for silicate

Reagent SI3, Component 2 for silicate

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Printing date 07/17/2023 Version 7 Reviewed on 07/17/2023

1 Identification

Product identifier

Trade name: Reagent SI1 Synonym: for silicate

Article number: 51508826

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Endress+Hauser Conducta Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813

USA

Information department:

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

Emergency telephone number: 001 18000 222 1222

2 Hazard(s) identification

Classification of the substance or mixture



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



Eye Damage 1

H318 Causes serious eye damage.



Skin Irritation 2

H315 Causes skin irritation.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





GHS05 GHS08

Signal word Danger

Hazard-determining components of labeling:

Sodium hydrogensulfate monohydrate molybdic acid sulphuric acid

Hazard statements

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 2)

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(Contd. of page 1)

Precautionary statements

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.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

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

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *3Fire = 0 Reactivity = 0

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.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous comp	ponents:	
CAS: 10034-88-5 Sodium hydrogensulfate monohydrate		
	♦ Eye Damage 1, H318	
CAS: 7664-93-9	sulphuric acid	2-6%
	Skin Corrosion 1A, H314	
CAS: 7782-91-4	molybdic acid	2-6%
	Specific Target Organ Toxicity - Repeated Exposure 2, H373; Specific Target Organ Toxicity - Single Exposure 3, H335	

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

4 First-aid measures

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: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 3)

Printing date 07/17/2023 Version 7 Reviewed on 07/17/2023

Trade name: Reagent SI1

(Contd. of page 2)

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: no further information

Special hazards arising from the substance or mixture

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

Advice for firefighters No further relevant information available.

Protective equipment: Mount respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

Environmental precautions:

Dilute with plenty of water.

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

Methods and material for containment and cleaning up:

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

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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.

Protective Action Criteria for Chemicals

PAC-1:		
CAS: 10034-88-5	Sodium hydrogensulfate monohydrate	0.63 mg/m³
CAS: 7664-93-9	sulphuric acid	0.20 mg/m³
CAS: 7782-91-4 molybdic acid		2.5 mg/m³
PAC-2:		
CAS: 10034-88-5	7 mg/m³	
CAS: 7664-93-9 sulphuric acid		8.7 mg/m³
CAS: 7782-91-4 molybdic acid		28 mg/m³
PAC-3:		
CAS: 10034-88-5	Sodium hydrogensulfate monohydrate	42 mg/m³
CAS: 7664-93-9	sulphuric acid	160 mg/m³
CAS: 7782-91-4	molybdic acid	170 mg/m³

7 Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep respiratory protective device available.

(Contd. on page 4)

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Trade name: Reagent SI1

(Contd. of page 3)

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 receptacle tightly sealed.

Storage class: 8 B

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

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS	: 7664-93-9 sulphuric acid
PEL	Long-term value: 1 mg/m³
REL	Long-term value: 1 mg/m³
TLV	Long-term value: 0.2* mg/m³ *as thoracic fraction, A2
CAS	: 7782-91-4 molybdic acid
PEL	Long-term value: 5 mg/m³ as Mo
TLV	Long-term value: 0.5 mg/m³ as Mo; A3; respirable fraction

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

Exposure controls

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.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labeling 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

Natural rubber. NR

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.

(Contd. on page 5)

acc. to OSHA HCS

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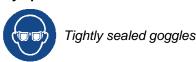
Trade name: Reagent SI1

(Contd. of page 4)

Penetration time of glove material

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

Eye protection:



Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid
Color: Colorless
Odor: Characteristic
Odor threshold: Not determined.

pH-value: Acidic

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
100 °C (212 °F)

Flash point:
Not applicable.

Planmability (solid, gaseous):
Not applicable.

Not determined.

Ignition temperature: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Not determined.

Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

Density:Not determined.Relative densityNot determined.Vapor densityNot determined.Evaporation rateNot determined.

Solubility in / Miscibility with

Water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined. Kinematic: Not determined.

Solvent content:

 Water:
 >80.0 %

 Solids content:
 0.0 %

(Contd. on page 6)

acc. to OSHA HCS

Printing date 07/17/2023 Version 7 Reviewed on 07/17/2023

Trade name: Reagent SI1

(Contd. of page 5)

Other information

No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

CAS: 7782-91-4 molybdic acid

Oral LD50 2,689 mg/kg (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Strong irritant with the danger of severe eye injury.

Sensitization: *No sensitizing effects known.* **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for

preparations:

Irritant

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (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 bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

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

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

(Contd. on page 7)

acc. to OSHA HCS

Printing date 07/17/2023 Version 7 Reviewed on 07/17/2023

Trade name: Reagent SI1

(Contd. of page 6)

Recommended cleansing agent: Water, if necessary with cleansing agents.

*14 Transport information

UN-Number

DOT, IMDG, IATA UN2796

UN proper shipping name

DOT, IMDG SULPHURIC ACID Sulphuric acid

Transport hazard class(es)

DOT



Class 8 Corrosive substances

Label 8

IMDG, IATA



Class 8 Corrosive substances

Label 8

Packing group

DOT, IMDG, IATA //

Environmental hazards: Not applicable.

Special precautions for user Warning: Corrosive substances

Hazard identification number (Kemler code): 80 EMS Number: F-A,S-B

Segregation groups (SGG1a) Strong acids

Stowage Category B

Segregation Code SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

DOT

Quantity limitations On passenger aircraft/rail: 1 L

On cargo aircraft only: 30 L

IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 2796 SULPHURIC ACID, 8, II

15 Regulatory information

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

Section 355 (extremely hazardous substances):

CAS: 7664-93-9 sulphuric acid

(Contd. on page 8)

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Trade name: Reagent SI1

(Contd. of page 7)

		(Contd. of page 7)
Section 313 (Sp	ecific toxic chemical listings):	
CAS: 7664-93-9	sulphuric acid	
TSCA (Toxic Su	bstances Control Act):	
CAS: 7732-18-5	water	ACTIVE
CAS: 7664-93-9	sulphuric acid	ACTIVE
CAS: 7782-91-4	molybdic acid	ACTIVE
Hazardous Air F		
None of the ingre	edients is listed.	

Proposition 65

Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	

Cancerogenity categories

Cancerogenity categories		
EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
TLV (Threshold Limit Value)		
CAS: 7664-93-9 sulphuric acid	A2	
CAS: 7782-91-4 molybdic acid		
MAK (German Maximum Workplace Concentration)		
CAS: 7664-93-9 sulphuric acid	4	
NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





GHS05 GHS08

Signal word Danger

Hazard-determining components of labeling:

Sodium hydrogensulfate monohydrate molybdic acid

sulphuric acid

Hazard statements

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

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.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

(Contd. on page 9)

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Trade name: Reagent SI1

(Contd. of page 8)

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

National regulations:

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

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.

Department issuing SDS: *PCC - TWR* **Contact:** *MSDS.pcc* @*endress.com*

Date of preparation / last revision 07/17/2023

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

DOT: US Department of Transportation IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Corrosion 1A: Skin corrosion/irritation - Category 1A

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation - Category 1

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

^{*} Data compared to the previous version altered.

Hauser 🔣 Page 1/7

Printing date 07/17/2023 Version 6

Reviewed on 07/17/2023

1 Identification

Product identifier

Trade name: Reagent SI2 Synonym: for silicate

Article number: 51508827

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813 USA

Information department:

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

Emergency telephone number: 001 18000 222 1222

2 Hazard(s) identification

Classification of the substance or mixture



Eye Irritation 2A H319 Causes serious eye irritation.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

Causes serious eye irritation.

Precautionary statements

Wash thoroughly after handling.

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2 Fire = 0 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 0Reactivity = 0

Printing date 07/17/2023 Version 6 Reviewed on 07/17/2023

Trade name: Reagent SI2

(Contd. of page 1)

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.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 77-92-9 | citric acid

Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335

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

4 First-aid measures

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.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: no further information

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

Advice for firefighters No further relevant information available.

Protective equipment: No special measures required.

6 Accidental release measures

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

Dilute with plenty of water.

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

Methods and material for containment and cleaning up:

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

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.

(Contd. on page 3)

Printing date 07/17/2023 Version 6 Reviewed on 07/17/2023

Trade name: Reagent SI2

(Contd. of page 2)

Protective Action Criteria for Chemicals

PAC-1:

None of the ingredients is listed.

PAC-2:

None of the ingredients is listed.

PAC-3:

None of the ingredients is listed.

7 Handling and storage

Precautions for safe handling *No special precautions are necessary if used correctly.*Information about protection against explosions and fires: *No special measures required.*

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 receptacle tightly sealed.*

Storage class: 12

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

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters

Components 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 that were valid during the creation were used as basis.

Exposure controls

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.

Breathing equipment: Not required.

Protection of hands:



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labeling 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.

(Contd. on page 4)

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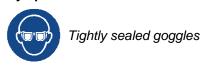
Trade name: Reagent SI2

(Contd. of page 3)

Penetration time of glove material

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

Eye protection:



Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid
Color: Colorless
Odor: Odorless
Odor threshold: Not determined.

pH-value: Slightly acidic

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
100 °C (212 °F)

Flash point:
Not applicable.

Not applicable.

Auto igniting:
1 °C (33.8 °F)

Decomposition temperature:
Not determined.
Not determined.

Ignition temperature: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Not determined.

Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

Density at 20 °C (68 °F): 1.081 g/cm³ (9.021 lbs/gal)

Relative density
Vapor density
Not determined.
Not determined.
Evaporation rate
Not determined.

Solubility in / Miscibility with

Water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined.
Kinematic: Not determined.

Solvent content:

 Water:
 >80.0 %

 Solids content:
 0.0 %

(Contd. on page 5)

acc. to OSHA HCS

Printing date 07/17/2023 Version 6 Reviewed on 07/17/2023

Trade name: Reagent SI2

(Contd. of page 4)

Other information

No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

CAS: 77-92-9 citric acid

Oral LD50 5,040 mg/kg (Mouse)

Primary irritant effect:

on the skin: No irritant effect. on the eye: Irritating effect.

Sensitization: *No sensitizing effects known.* **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for

preparations: Irritant

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (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.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

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

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

(Contd. on page 6)

acc. to OSHA HCS

Printing date 07/17/2023 Version 6 Reviewed on 07/17/2023

Trade name: Reagent SI2

(Contd. of page 5)

Recommended cleansing agent: Water, if necessary with cleansing agents.

*14 Transport information

UN-Number

DOT, ADN, IMDG, IATA Void

UN proper shipping name

DOT, ADN, IMDG, IATA Void

Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class

Packing group

DOT, IMDG, IATA Void

Environmental hazards:Special precautions for user
Not applicable.
Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation": Void

15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

None of the ingredients is listed.

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 7)

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Trade name: Reagent SI2

01010110

(Contd. of page 6)

Hazard pictograms



Signal word Warning

Hazard statements

Causes serious eye irritation.

Precautionary statements

Wash thoroughly after handling.

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

National regulations:

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

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.

Department issuing SDS: *PCC - TWR* **Contact:** *MSDS.pcc* @*endress.com*

Date of preparation / last revision 07/17/2023

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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

Printing date 07/17/2023 Version 1

Reviewed on 07/17/2023

Page 1/6

1 Identification

Product identifier

Trade name: Reagent SI3, Component 1

Synonym: for silicate

Article number: 51509864_1

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813

USA

Information department:

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

Emergency telephone number: 001 18000 222 1222

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements

GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Classification system:

NFPA ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

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.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 124-68-5 2-amino-2-methylpropanol 5-10% Skin Irritation 2, H315; Eye Irritation 2A, H319

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

(Contd. on page 2)

Printing date 07/17/2023 Version 1 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 1

(Contd. of page 1)

4 First-aid measures

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.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: no further information

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

Advice for firefighters No further relevant information available.

Protective equipment: No special measures required.

6 Accidental release measures

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

Dilute with plenty of water.

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

Methods and material for containment and cleaning up:

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

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.

Protective Action Criteria for Chemicals

PAC-1:		
CAS: 124-68-5	2-amino-2-methylpropanol	17 mg/m³
PAC-2:		
CAS: 124-68-5	2-amino-2-methylpropanol	190 mg/m³
PAC-3:		
CAS: 124-68-5	2-amino-2-methylpropanol	570 mg/m³

7 Handling and storage

Precautions for safe handling No special measures required.

Information about protection against explosions and fires: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

(Contd. on page 3)

Printing date 07/17/2023 Version 1 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 1

(Contd. of page 2)

Further information about storage conditions: None.

Storage class: 12

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

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters

Components 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 that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: 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. 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Not required.

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid
Color: Colorless
Odor: Characteristic
Odor threshold: Not determined.

pH-value: Alkaline

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
100 °C (212 °F)

Flash point:
Not applicable.

Pecomposition temperature:
Not determined.
Not determined.

Ignition temperature: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Not determined.

(Contd. on page 4)

acc. to OSHA HCS

Printing date 07/17/2023 Version 1 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 1

(Contd. of page 3)

Explosion limits:

Lower: Not determined. **Upper:** Not determined.

Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

Density at 20 °C (68 °F): 0.996 g/cm³ (8.312 lbs/gal)

Relative density

Vapor density

Not determined.

Not determined.

Evaporation rate

Not determined.

Solubility in / Miscibility with

Water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined.
Kinematic: Not determined.

Solvent content:

Organic solvents: 7.5 % Water: 92.5 % Solids content: 0.0 %

Other information No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid *No further relevant information available.* **Incompatible materials:** *No further relevant information available.*

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect. on the eye: No irritating effect.

Sensitization: No sensitizing effects known. Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

(Contd. on page 5)

acc. to OSHA HCS

Printing date 07/17/2023 Version 1 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 1

(Contd. of page 4)

Additional ecological information:

General notes:

Water hazard class 1 (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.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

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

*14 Transport information

UN-Number

DOT, ADN, IMDG, IATA Void

UN proper shipping name

DOT, ADN, IMDG, IATA Void

Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class

Packing group

DOT, IMDG, IATA Void

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

DOT

Hazardous substance: 32 lbs, 14,53 kg

UN "Model Regulation": Void

15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

None of the ingredients is listed.

(Contd. on page 6)

Printing date 07/17/2023 Version 1 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 1

(Contd. of page 5)

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

None of the ingredients is listed.

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

National regulations:

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

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.

Department issuing SDS: PCC - TWR Contact: MSDS.pcc@endress.com

Date of preparation / last revision 07/17/2023

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

DOT: US Department of Transportation IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irritation 2: Skin corrosion/irritation - Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

* Data compared to the previous version altered.

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Printing date 07/17/2023 Version 3 Reviewed on 07/17/2023

1 Identification

Product identifier

Trade name: Reagent SI3, Component 2

Synonym: for silicate

Article number: 51509864_2

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Endress+Hauser Conducta Inc. 4123 E. La Palma Ave., Suite 200 Anaheim CA 92807-1813

USA

Information department:

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

Emergency telephone number: 001 18000 222 1222

2 Hazard(s) identification

Classification of the substance or mixture



GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





GHS05

GHS07

Signal word Danger

Hazard-determining components of labeling:

disodium disulphite

Hazard statements

Harmful if swallowed.

Causes serious eye damage.

Precautionary statements

Wear eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

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.

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

(Contd. on page 2)

Printing date 07/17/2023 Version 3 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 2

(Contd. of page 1)

Classification system: NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *3 Fire = 0 Reactivity = 0

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.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 7681-57-4 disodium disulphite

80-100%

Eye Damage 1, H318; Acute Toxicity - Oral 4, H302

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

4 First-aid measures

Description of first aid measures

General information:

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; 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: Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

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

For safety reasons unsuitable extinguishing agents: no further information

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

Advice for firefighters No further relevant information available.

(Contd. on page 3)

Printing date 07/17/2023 Version 3 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 2

Protective equipment: No special measures required.

(Contd. of page 2)

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

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

Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

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.

Protective Action Criteria for Chemicals

PAC-1:	
CAS: 7681-57-4 disodium disulphite	15 mg/m³
PAC-2:	
CAS: 7681-57-4 disodium disulphite	64 mg/m³
PAC-3:	
CAS: 7681-57-4 disodium disulphite	390 mg/m³

7 Handling and storage

Precautions for safe handling Thorough dedusting.

Information about protection against explosions and fires: No special measures required.

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 receptacle tightly sealed.

Storage class: 11

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

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters

Com	Components with limit values that require monitoring at the workplace:			
CAS	CAS: 7681-57-4 disodium disulphite			
REL	Long-term value: 5 mg/m³			
TLV	Long-term value: 5 mg/m³			
	A4			

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

Exposure controls

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.

(Contd. on page 4)

Printing date 07/17/2023 Version 3 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 2

(Contd. of page 3)

Breathing equipment: Not required.

Protection of hands:



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labeling 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Crystalline powder

Color: White

Odor: Characteristic
Odor threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.
Undetermined.

Not applicable.

Flammability (solid, gaseous):

Not determined.

Not determined.

Ignition temperature: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Not determined.

Explosion limits:

Lower:
Upper:
Not determined.
Not determined.
Not applicable.

Density:
Not determined.
Not applicable.

(Contd. on page 5)

acc. to OSHA HCS

Printing date 07/17/2023 Version 3 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 2

(Contd. of page 4)

Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.

Solubility in / Miscibility with

Water: Soluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

Solvent content:

Solids content: 100.0 %

Other informationNo further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

*11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect: on the skin: No irritant effect.

on the eye: Strong irritant with the danger of severe eye injury.

Sensitization: No sensitizing effects known. Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for

preparations: Harmful Irritant

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (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 bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

(Contd. on page 6)

acc. to OSHA HCS

Printing date 07/17/2023 Version 3 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 2

(Contd. of page 5)

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

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

Uncleaned packagings:

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

14 Transport information

UN-Number

DOT, ADN, IMDG, IATA Void

UN proper shipping name

DOT, ADN, IMDG, IATA Void

Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class

Packing group

DOT, IMDG, IATA Void

Environmental hazards:Special precautions for user
Not applicable.
Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation": Void

*15 Regulatory information

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

Section	355	(extremely	hazardous	substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Contd. on page 7)

Printing date 07/17/2023 Version 3

Trade name: Reagent SI3, Component 2

(Contd. of page 6)

Reviewed on 07/17/2023

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

CAS: 7681-57-4 disodium disulphite

A4

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms





Signal word Danger

Hazard-determining components of labeling:

disodium disulphite

Hazard statements

Harmful if swallowed.

Causes serious eye damage.

Precautionary statements

Wear eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

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.

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

National regulations:

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

*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.

Department issuing SDS: *PCC - TWR* **Contact:** *MSDS.pcc* @*endress.com*

Date of preparation / last revision 07/17/2023

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord 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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 8)

Safety Data Sheet acc. to OSHA HCS

Printing date 07/17/2023 Version 3 Reviewed on 07/17/2023

Trade name: Reagent SI3, Component 2

(Contd. of page 7)

NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity - Oral 4: Acute toxicity - Category 4
Eye Damage 1: Serious eye damage/eye irritation - Category 1

* Data compared to the previous version altered.

-USA --