Safety Datasheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Ref No SDS-013
Date of print: 06/07/2023
Date of issue and revision: 01/06/2023
Version: 1.0

Sodium Waterglass (Comp. A)

Pipe Doctor Patch Repair

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:
Sodium waterglass (Comp. A)

1.2 Relevant identified uses of the substance or mixture and uses advised against:
"A" component for water glass – polyisocyanate based two-component synthetic resin. The synthetic resin (components "A" + "B") is used for the lining of sewer pipes and manholes. The application has to be carried out under professional, industrial conditions by persons having proper previous training.

1.3 Details of the supplier of the safety data sheet:
S1E Ltd, Copper House, Unit 2, Spring Hill Road, Grimethorpe, Barnsley, S72 2BQ.
Telephone: +44 (0)1226 397 015
E-mail address: contact@s1e.co.uk

1.3.1. Responsible Person
E-mail address for a competent person responsible for the safety data sheet: contact@s1e.co.uk

1.4 Emergency telephone number
NHS: 111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard classes / categories	Hazard statements
Skin Irrit. 2	H315 Causes skin irritation.
Eye Dam. 1	H318 Causes serious eye damage.

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2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms:

Signal word: Danger

Hazard statements:
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements:
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

Hazard determining component(s) for labelling:
Silicic acid, sodium salt

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures:

Chemical characterization

Name	EC No.	CAS No.	REACH Reg. No.	Content (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)	
					Hazard categories1	H-phrase(s) 1
Silicic acid, sodium salt (Molar ratio Na2O: SiO2 = 1 : > 1.6 - < 2.6)	215-687-4	1344-09-8	01-2119448725-31	25–50	Skin Irrit. 2 Eye Dam. 1	H315 H318
Water	231-791-2	7732-18-5	—	50–75	—	—

1 – See Section 16 for the full text of the abbreviations declared above.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:
General information: No special measures necessary. When in doubt or if symptoms are observed, get medical advice. First aid responders should pay attention to self-protection.

4.1.1. Inhalation:
Remove to fresh air. Obtain medical attention if breathing difficulty persists.

4.1.2. Skin contact:
Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In the event of skin irritation take medical treatment.

4.1.3. Eye contact:
Rinse immediately carefully and thoroughly with eye bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

4.1.4. Ingestion:
Immediately rinse mouth and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed:
No symptoms known.

4.3. Indication of any immediate medical attention and special treatment needed:
Hints for the physician/dangers: The product contains alkali silicate. After swallowing and vomiting aspiration into lung is possible, which can cause chemical pneumonia or asphyxia.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:
The product itself is non-combustible. Adapt fire extinguishing measures to surrounding areas.
Suitable extinguishing media: water spray, carbon dioxide, dry chemical extinguishing agent (powder), foam
Non-suitable extinguishing media: full water jet

5.2. Special hazards arising from the substance or mixture:
None known.

5.3. Advice for firefighters:
Special protective equipment: Use suitable breathing apparatus. In case of fire and/or explosion do not breathe fumes.
Further information: Fire in vicinity poses risk of pressure build-up and burst. Containers at risk from fire should be cooled with water spray. Fire residues and contaminated extinguishing water should be disposed of in accordance with local authority regulations. Carbon dioxide should be applied carefully in confined spaces since it can displace oxygen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:
Use personal protective clothing. Avoid contact with skin, eyes, and clothing. High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions:
Do not allow to enter drains or waterways. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up:
Take up with absorbent material (e.g. sand, diatomaceous earth, universal binder). Rinse away rest with plenty of water. Dispose according to authority regulations.

6.4. Reference to other sections:
Safe handling: see Section 7.
Personal protective equipment: see Section 8.
Disposal: see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:
Observe the usual precautions for handling chemicals. Open and handle container with care. Avoid contact with skin, eyes and clothing. Do not breathe aerosol. Wear personal protective equipment. The product is not combustible or explosive, but heating leads to pressure build-up and risk of burst.

7.2. Conditions for safe storage, including any incompatibilities:
Requirements for storage rooms and vessels: Keep only in the original container. Keep container tightly closed. Provide adequate protection against leakage, e.g. with the aid of collection trays or lowered areas. Provide a solvent-resistant and solid floor.

Further information on storage conditions: Protect from frost.
Recommended storage temperature: Between +5 and +45 °C.
Storing together hints: Keep away from food, drink, and feeding stuff. Do not store with acids.
Storage stability: Under correct storing conditions the product is stable for at least 12 months.

7.3. Specific end use(s):
Restricted to professional users.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:
Limit values according to REACH registration:
DNEL for workers: 5.61 mg/m3 (inhalation); 1.59 mg/kg bw/day (dermal)
PNEC for freshwater: 7.5 mg/L, for sewage treatment plant: 348 mg/L

8.2. Exposure controls

General protective and hygiene measures: Observe the usual precautions when handling chemicals. Avoid contact with skin and eyes. Do not breathe aerosol. Do not eat, drink or smoke during working time. Take off immediately all contaminated clothing and wash before reuse. Hands and face should be washed before breaks and at the end of the shift. Take a shower, if necessary. Apply skin care products after work.

Respiratory protection: Usually no personal respiratory protection is needed. It is only required when the exposure limit value is exceeded, or in the event of aerosol/mist formation. Suitable respiratory protection apparatus: P2 particle filter device (DIN EN 143).

Hand protection: Tested protective gloves must be worn (DIN EN 374). Suitable material: NBR (nitrile rubber), butyl rubber. Thickness >= 0,4 mm, breakthrough time (maximum wearing time) >= 480 min. Observe the wear time limits as specified by the manufacturer.

Eye protection: Safety glasses with side protection (DIN EN 166).

Body protection: Clothing as usual in the chemical industry.

Environmental exposure controls: See Section 7. No additional measures necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Appearance: liquid, clear, colourless to slightly yellow
b) Odour: odourless
c) Odour threshold: not applicable
d) pH-value: 13-14
e) Melting point/freezing point: no data
f) Boiling range: > 100 °C
g) Flash point: does not ignite
h) Evaporation rate: no data
i) Flammability (solid, gaseous): not applicable (liquid)
j) Ignitable, explosive range: not applicable
k) Vapour pressure: no data
l) Vapour density: no data
m) Density: 1.5 ± 0.1 g/cm3 (25 °C)
n) Solubility: completely miscible with water
o) Partition coefficient n-octanol/water: not applicable
p) Self-ignition temperature: not applicable
q) Decomposition temperature: not applicable
r) Dynamic viscosity: 400 ± 50 mPa.s (25 °C)
s) Explosive properties: non-explosive
t) Oxidizing properties: non-oxidizing

9.2. Other information

Solids content: ca. 46%.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:
Under normal conditions of storage and use, hazardous reactions will not occur.

10.2. Chemical stability:
Under normal conditions of storage and use, hazardous reactions will not occur.

10.3. Possibility of hazardous reactions:
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid:
Protect from frost.

10.5. Incompatible materials:
Substances to avoid: acids. Reacts with metals like aluminium, tin, zinc under evolution of hydrogen and heat.

10.6. Hazardous decomposition products:
No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

CAS No.	Chemical name				
	Exposure route	Dose	Species	Source	Method
1344-09-8	Silicic acid, sodium salt (Molar ratio Na2O : SiO2 = 1 : > 1.6 - <= 2.6)				
	oral	LD50 > 2000 mg/kg	Rat	IUCLID	
	dermal	LD50 > 5000 mg/kg	Rat	IUCLID	

11.1.2. Irritation/Corrosion
Causes skin irritation. Causes serious eye damage.

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

11.1.4. Germ cell mutagenicity
Based on available data, the classification criteria are not met.

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

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

11.1.7. STOT– single exposure
Based on available data, the classification criteria are not met.

11.1.8. STOT – repeated exposure
Based on available data, the classification criteria are not met

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

11.2. Information on other hazards
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:
The product has not been tested.

CAS No.	Chemical name					
	Aquatic toxicity	Dose	Time	Species	Source	Method
1344-09-8	Silicic acid, sodium salt (Molar ratio Na2O : SiO2 = 1 : > 1.6 - <= 2.6)					
	Acute fish toxicity	LC50 1108 mg/l	96 h	Brachydanio rerio (zebrafish)	IUCLID	
	Acute algae toxicity	ErC50 207 mg/l	72 h	Scenedesmus subspicatus	IUCLID	
	Acute crustacea toxicity	EC50 1700 mg/l	48 h	Daphnia magna (big water flea)	IUCLID	

12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

12.6. Endocrine disrupting properties
No data available.

12.7. Other adverse effects
The product is an alkali. Do not allow uncontrolled discharge of product into the environment. It must be prevented from entering the soil, surface waters, and canals. Before discharge into sewage plants the product normally needs to be neutralised.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Advice on disposal: Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste disposal number of waste from residues/unused products: 060205 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; other bases; hazardous waste

Contaminated packaging:
Handle contaminated packaging in the same way as the substance itself. Packaging which cannot be properly cleaned must be disposed of. Non-contaminated and completely emptied packaging may be recycled. Do not mix with other wastes.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID) / Inland waterways transport (ADN)/ Marine transport (IMDG) / Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards:

ENVIRONMENTALLY HAZARDOUS: no
Danger releasing substance: No dangerous good in sense of this transport regulation.

14.6. Special precautions for user:

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments:

No dangerous good in sense of this transport regulation.

SECTION 15: REGULATORY INFORMATION

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

EU regulatory information
2010/75/EU (VOC): 0%
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)
Additional information
The product does not contain substances of very high concern (SVHC).
National regulatory information
Water contaminating class (D): 1 – slightly water contaminating

15.2. Chemical safety assessment:

In accordance with REACH chemical safety assessment has not been carried out for the product.

SECTION 16: OTHER INFORMATION

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

16.1. Indication of changes

This is the first edition of the safety data sheet.

16.2. Abbreviations and acronyms

bw: bodyweight
CAS No.: Chemical Abstracts Service number
CLP: Regulation on Classification, Labelling and Packaging
DNEL: Derived no effect level
EC: European Commission
EC No.: EINECS and ELINCS number
EC50: Half maximal effective concentration
ErC50: EC50 based on growth rate
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EU: European Union
LC50: Lethal concentration, 50%
LD50: Median lethal dose
MFSU: Manufacture, formulation, supply, and use
PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration
REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals (EU regulation)
SVHC: Substances of Very High Concern
VOC: Volatile Organic Compound
vPvB: Very Persistent and Very Bioaccumulative

H-Phrases
H315 Causes skin irritation.
H318 Causes serious eye damage.

P-Phrases
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

Hazard classes
Eye Dam. Serious eye damage
Skin Irrit. Skin irritation

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Safety Datasheet

S1E Limited
Specialist Suppliers of Trenchless Technology

No-dig Pipeline Repair

S1E Limited is a specialist supplier of trenchless technologies to the drainage repair industry. The company focuses on sourcing quality products for professional use. They are all tried and tested in the field to produce impressive results. S1E distributes high-quality products from market-leading manufacturers for the drainage repair industry. Products include camera inspection systems, cutting and cleaning tools, CIPP lining equipment and consumables, mechanical point repair devices, rat blockers andother site consumables.

S1E Limited is committed to being a quality supplier, with a focus on customer service. S1E is proud to be an active member of the UK Society for Trenchless Technology.

First established in 2007 as Fernco Environmental, the company's mission was to seek out repair products for the infrastructure repair and water management markets. Since 2016, it has re-focused its ranges to the specialist field of trenchless repair, with a growing portfolio in this specialist area.

The company is owned by Cooper Companies Inc, a US-based leader in the production of pipe couplings. The Group also owns companies in Canada, Mexico, Brazil, Germany and France, as well as the UK-based sister company to S1E, Fernco Ltd.

It is accredited to ISO 9001: 2015 for its Quality Management System. It is also accredited to ISO 14001: 2015 for its Environmental Management System.

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