Safety Data Sheet
according to WHS Regulations

Date of issue: 07.11.2026 Version number 12 Revision: 07.11.2026

* 1 Identification

· **Other means of identification**

· **Trade name: Trebon Si**

· **Article number:** 2231
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture**
One-shot detergent for washing of heavily soiled textiles made of cotton and blends.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
· **Manufacturer**
Chemische Fabrik Kreussler & Co. GmbH
Rheingaustraße 87-93, D-65203 Wiesbaden
Tel. +49 (0) 611 9271-0
· **Supplier**
Spencer Systems
2/142 Riverstone Parade
Riverstone NSW 2765
Australia

· **Further information obtainable from:**
Spencer Systems
Daniel Hays
2/142 Riverstone Pde
Riverstone, NSW, 2765
Australia
· **Emergency telephone number:**
+61 (0) 2 9679 1244 (9am – 5pm AEDT)
Poisons information centre – 13 11 26 from anywhere in Australia

* 2 Hazard(s) Identification

· **Classification of the substance or mixture**

Corrosive to metals – Category 1	H290 May be corrosive to metals.
Skin corrosion/irritation – Category 1B	H314 Causes severe skin burns and eye damage.
Eye damage/irritation – Category 1	H318 Causes serious eye damage.
Specific target organ toxicity (single exposure) – Category 3	H335 May cause respiratory irritation.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
disodium metasilicate (≥45-<70 %)
disodium disilicate (15-30 %)
Benzenesulfonic acid, C10-13 - alkyl derivs., sodium salts (≥1-<2.5 %)
· **Hazard statements**
May be corrosive to metals.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

(Contd. on page 2)

Safety Data Sheet
according to WHS Regulations

Date of issue: 07.11.2026 Version number 12 Revision: 07.11.2026

Trade name: Trebon Si

(Contd. of page 1)

· **Precautionary statements**
Avoid breathing dust
Wear protective gloves / eye protection.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
Store away from metals.
· **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 and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
6834-92-0	disodium metasilicate Corrosive to metals – Category 1, H290; Skin corrosion/irritation – Category 1B, H314; Eye damage/irritation – Category 1, H318; Acute toxicity - oral – Category 4, H302; Specific target organ toxicity (single exposure) – Category 3, H335	30-50%
13870-28-5	disodium disilicate Eye damage/irritation – Category 1, H318	15-30%
10213-79-3	Disodium Metasilicate Corrosive to metals – Category 1, H290; Skin corrosion/irritation – Category 1B, H314; Eye damage/irritation – Category 1, H318; Specific target organ toxicity (single exposure) – Category 3, H335	≥15-<20%
157627-86-6	Alcohols C13-C15 branched and linear,ethoxylated Eye damage/irritation – Category 1, H318; Acute toxicity - oral – Category 4, H302; Aquatic Chronic 3, H412	≥2.5-<5%
3794-83-0	tetrasodium (1-hydroxyethylidene)bisphosphonate Acute toxicity - oral – Category 4, H302; Eye damage/irritation – Category 2A, H319	1-5%
68411-30-3	Benzenesulfonic acid, C10-13 - alkyl derivs., sodium salts Eye damage/irritation – Category 1, H318; Skin corrosion/irritation – Category 2, H315; Aquatic Chronic 3, H412	≥1-<2.5%
157627-86-6	Aliphatic alcohol, C13-15, predominantlylinear, ethoxylated Eye damage/irritation – Category 2A, H319; Aquatic Chronic 3, H412	≥1-<2.5%

· **Ingredients according to detergent regulation EC 648/2004**	
non-ionic surfactants	≥5 - <15%
polycarboxylates, phosphonates, soap, anionic surfactants, optical brighteners, perfumes (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)	<5%

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

4 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:**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 3)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 2)

· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Hazards** Danger of gastric perforation.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
· **Special hazards arising from the substance or mixture** Product itself does not burn.
· **Protective equipment:** Use normal protective clothing.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **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.

* 7 Handling and Storage

· **Handling:**
· **Precautions for safe handling**
Thorough dedusting.
Prevent formation of dust.
· **Information about fire - and explosion protection:** No special measures required.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Unsuitable material for receptacle: aluminium.
Suitable material for receptacles and pipes: Stainless steel.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Store in dry conditions.
Keep container tightly sealed.
Store under lock and key and with access restricted to technical experts or their assistants only.
· **Storage class:** 8 B
· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

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

(Contd. on page 4)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 3)

· **DNELs**		
6834-92-0 disodium metasilicate		
Oral	long term/systemic effects	0.74 mg/kg (general public)
Dermal	long term/systemic effects	0.74 mg/kg/Day (general public)
		1.49 mg/kg/Day (Workers)
Inhalative	long term/systemic effects	1.55 mg/m³ (general public)
		6.22 mg/m³ (Workers)
13870-28-5 disodium disilicate		
Oral	long term/systemic effects	1.59 mg/kg (general public)
Dermal	long term/systemic effects	159 mg/kg/Day (general public)
		318 mg/kg/Day (Workers)
Inhalative	long term/systemic effects	2.39 mg/m³ (general public)
		11.12 mg/m³ (Workers)
10213-79-3 Disodium Metasilicate		
Oral	long term/systemic effects	0.74 mg/kg (Consumers)
Dermal	long term/systemic effects	0.74 mg/kg/Day (Consumers)
		1.49 mg/kg/Day (Workers)
Inhalative	long term/systemic effects	1.55 mg/m³ (Consumers)
		6.22 mg/m³ (Workers)

· **PNECs**	
6834-92-0 disodium metasilicate	
Aqua	7.5 mg/l (freshwater)
13870-28-5 disodium disilicate	
Aqua	7.5 mg/l (Marine water)
	7.5 mg/l (freshwater)
Sediment	29.4 mg/kg (Marine water)
	29.4 mg/kg (freshwater)
10213-79-3 Disodium Metasilicate	
Aqua	1,000 mg/l (Sewage treatment plant)
	1 mg/l (Marine water)
	7.5 mg/l (Freshwater)
	7.5 mg/l (intermittent release)

· **Additional information:** The lists valid during the making were used as basis.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and food.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
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.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 4)

· **Material of gloves**
PVC or PE gloves
Recommended thickness of the material: ≥ 0.4 mm
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.
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong material gloves
· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

* 9 Physical and Chemical Properties

· **General Information**	
· **Appearance:**	
· **Form:**	Powder
· **Colour:**	White
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value at 20 °C:**	12.5 (1%)
· **Change in condition**	
· **Melting point/freezing point:**	Undetermined.
· **Initial boiling point and boiling range:**	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability**	Not determined.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density:**	Not determined.
· **Bulk density:**	780 kg/m³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
· **water:**	Soluble.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
· **Dynamic:**	Not applicable.
· **Kinematic:**	Not applicable.
· **Solvent content:**	
· **Organic solvents:**	0.0 %
· **Other information**	
· **Particle characteristics**	Not determined.

(Contd. on page 6)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 5)

· **Physical state**	Solid

10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
· **Possibility of hazardous reactions**
Reacts with light alloys in the presence of moisture to form hydrogen.
Strong exothermic reaction with acids.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** aluminum
· **Hazardous decomposition products:** Hydrogen

* 11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD-50	3,038 mg/kg (rat)

6834-92-0 disodium metasilicate		
Oral	LD-50	1,280 mg/kg (rat)
	NOAEL	230 mg/kg (rat)
13870-28-5 disodium disilicate		
Oral	LD-50	2,507 mg/kg (rat) (OECD 401)
Inhalative	LC-50/4 h	>3,510 mg/l (rat)
10213-79-3 Disodium Metasilicate		
Oral	LD-50	1,152-1,349 mg/kg (rat)
157627-86-6 Alcohols C13-C15 branched and linear,ethoxylated		
Oral	LD-50	1,150 mg/kg (rat)
3794-83-0 tetrasodium (1-hydroxyethylidene)bisphosphonate		
Oral	LD-50	1,100 mg/kg (rat)
68411-30-3 Benzenesulfonic acid, C10-13 - alkyl derivs., sodium salts		
Oral	LD-50	1,080 mg/kg (rat)
Dermal	LD-50	>2,000 mg/kg (rat)
157627-86-6 Aliphatic alcohol, C13-15, predominantlylinear, ethoxylated		
Oral	LD-50	>5,000 mg/kg (rat)
Dermal	LD-50	>2,000 mg/kg (rat) (OECD 402)

· **Primary irritant effect:**
· **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** May cause respiratory irritation.
· **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.

(Contd. on page 7)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 6)

* 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
6834-92-0 disodium metasilicate	
EC-50 3 h	>100 mg/l (Belebtschlamm)
EC-50 48h	1,700 mg/l (Daphnia magna)
EC-50 72h	207 mg/l (Chlorella Pyrenoidosa)
LC-50 96h	210 mg/l (Zebrabärbling)
13870-28-5 disodium disilicate	
LC-50 48 h	491 mg/L (Daphnia magna)
EC-50 3 h	720 mg/l (Belebtschlamm)
EC-50 48h	491 mg/l (Daphnia magna) (OECD 202)
LC-50 96h	>500 mg/l (Brachydanio rerio)
NOEC (72 h)	18 mg/l (Scenedesmus subspicatus)
10213-79-3 Disodium Metasilicate	
EC-50 48h	1,700 mg/l (Daphnia magna)
157627-86-6 Alcohols C13-C15 branched and linear,ethoxylated	
EC-10	>1,000 mg/L (Belebtschlamm)
EC-50 48h	1-10 mg/l (Daphnia magna) (Literaturangabe)
EC-50 72h	1-10 mg/l (Scenedesmus subspicatus) (Literaturangabe)
LC-50 96h	1-10 mg/l (Brachydanio rerio)
3794-83-0 tetrasodium (1-hydroxyethylidene)bisphosphonate	
EC-50 96h	>170 mg/l (Daphnia magna)
LC-50 96h	>100 mg/l (Oncorhynchus mykiss)
68411-30-3 Benzenesulfonic acid, C10-13 - alkyl derivs., sodium salts	
LC-50 48 h	2.4 mg/L (Daphnia magna)
EC-50 48h	2.9 mg/l (Daphnia magna)
EC-50 96h	29 mg/l (Pseudokirchneriella subscapitata)
LC-50 96h	1.67 mg/l (Lepomis macrochirus)
NOEC 21 d	1.41 mg/l (daphnia)
NOEC (72 d)	1 mg/L (fish)
157627-86-6 Aliphatic alcohol, C13-15, predominantlylinear, ethoxylated	
EC-10 16 h	>10,000 mg/L (Pseudomonas putida)
EC-50 48h	0.1-1 mg/l (Daphnia magna) (Richtlinie 79/831/EWG)
EC-50 72h	0.1-1 mg/l (Scenedesmus subspicatus) (OECD 201)
LC-50 96h	1-10 mg/l (Brachydanio rerio)

· **Persistence and degradability** No further relevant information available.
· **Other information:** The product is biodegradable.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
The product may not be released into the environment without control.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

(Contd. on page 8)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 7)

· **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 together with household garbage. Do not allow product to reach sewage system.
Dispose of in accordance with Local, State, and Federal Regulations.

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

* 14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	UN3262
· **UN proper shipping name**	
· **ADG**	3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM METASILICATE)
· **IMDG, IATA**	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM METASILICATE)
· **Transport hazard class(es)**	
· **ADG, IMDG, IATA**	
· **Class**	8 Corrosive substances.
· **Label**	8
· **Packing group**	
· **ADG, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Corrosive substances.
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG18) Alkalis
· **Stowage Category**	A
· **Segregation Code**	SG35 Stow "separated from" SGG1-acids
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADG**	
· **Limited quantities (LQ)**	5 kg
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **Transport category**	3
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	5 kg

(Contd. on page 9)

Safety Data Sheet
according to WHS Regulations

Date of issue: 07.11.2026 Version number 12 Revision: 07.11.2026

Trade name: Trebon Si

(Contd. of page 8)

· **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 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM METASILICATE), 8, III

* 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**
All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**		
112-34-5	2-(2-butoxyethoxy)ethanol	S5
106-24-1	geraniol	S6
76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	S5, S6
5392-40-5	Citral	S5

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
disodium metasilicate (≥45-<70 %)
disodium disilicate (15-30 %)
Benzenesulfonic acid, C10-13 - alkyl derivs., sodium salts (≥1-<2.5 %)
· **Hazard statements**
May be corrosive to metals.
Causes severe skin burns and eye damage.
May cause respiratory irritation.
· **Precautionary statements**
Avoid breathing dust
Wear protective gloves / eye protection.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
Store away from metals.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **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.
The information of Items 4 through 8 and 10 through 12 partially refers not to the use and the proper application of the product (see Directions for Use/Product Information) but to the release of larger quantities in the case of accidents and irregularities.
The information exclusively describes the safety requirements of the product(s) and is based on the present state of our experience.

(Contd. on page 10)

Safety Data Sheet
according to WHS Regulations

(Contd. of page 9)

Non-ionic tensides can have varying characteristics and classifications despite same CAS-No.

· **Relevant phrases**
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
· **Contact:**
· **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
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
Corrosive to metals – Category 1: Corrosive to metals – Category 1
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Skin corrosion/irritation – Category 1B: Skin corrosion/irritation – Category 1B
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**