Safety Data Sheet
according to WHS Regulations

Date of issue: 07.11.2026 Version number 4 Revision: 07.11.2026

* 1 Identification

· **Other means of identification**

· **Trade name: Trebon Plus ND**

· **Article number:** 2161
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture**
Superconcentrated heavy-duty detergent for white textiles for application in hard and soft water at 30-60-90 °C.
Phosphatefree and NTA free.

· **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**
Eye damage/irritation – Category 1 H318 Causes serious eye damage.

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



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**
disodium disilicate (30-50 %)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide (≥1-<2.5 %)
· **Hazard statements**
Causes serious eye damage.

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· **Precautionary statements**
Wear protective gloves / eye 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.
Store in a dry place.
· **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:**		
13870-28-5	disodium disilicate Eye damage/irritation – Category 1, H318	30-50%
497-19-8	sodium carbonate Eye damage/irritation – Category 1, H318; Specific target organ toxicity (single exposure) – Category 3, H335	30-50%
15630-89-4	disodium carbonate, compound with hydrogenperoxide (2:3) Oxidising solids - Category 3, H272; Eye damage/irritation – Category 1, H318; Acute toxicity - oral – Category 4, H302	≥15-<25%
157627-86-6	Alkohole C13-C15 verzweigt und linear,ethoxyliert 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%
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide 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 Aquatic Acute 1, H400; Eye damage/irritation – Category 2A, H319; Aquatic Chronic 3, H412	≥0.25-≤1%

· **Ingredients according to detergent regulation EC 648/2004**	
oxygen-based bleaching agents	≥15 - <30%
non-ionic surfactants	≥5 - <15%
phosphonates, anionic surfactants, polycarboxylates, optical brighteners, perfumes (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), enzymes	<5%

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

* 4 First Aid Measures

· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Rinse with warm water.

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If skin irritation continues, consult a doctor.
· **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.
· **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** No further relevant information available.
· **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:** Pick up mechanically.
· **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**
No special measures required.
No special precautions are necessary if used correctly.
· **Information about fire - and explosion protection:** 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:**
Store in dry conditions.
Store under lock and key and with access restricted to technical experts or their assistants only.
· **Storage class:** 13
· **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.

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· **DNELs**

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)
15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)		
Dermal	Acute/local effects	6.4 mg/cm² (Consumers)
		12.8 mg/cm² (Workers)
Inhalative	long term/local effects	5 mg/m³ (Workers)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide		
Oral	short term/systemic effects	0.425 mg/kg (Consumers)
Dermal	long term/systemic effects	42.5 mg/kg/Day (Consumers)
		85 mg/kg/Day (Workers)
Inhalative	long term/systemic effects	1.5 mg/m³ (Consumers)
		6 mg/m³ (Workers)

· **PNECs**

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)
15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)	
Aqua	16.24 mg/l (Sewage treatment plant)
	0.035 mg/l (freshwater)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	
Aqua	5.6 mg/l (Sewage treatment plant)
	0.0268 mg/l (Marine water)
	0.268 mg/l (Freshwater)
	0.055 mg/l (intermittent release)
Sediment	35 mg/kg (Soil)
	8.1 mg/kg (Marine water)
	8.1 mg/kg (Freshwater)

· **Additional information:** The lists valid during the making were used as basis.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Be sure to clean skin thoroughly after work and before breaks.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
· **Respiratory protection:** Not required.

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· **Protection of hands:**
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
· **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-blue powder
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value at 20 °C:**	11.3 (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:**	800-860 kg/m³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
· **water:**	Soluble.

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

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD-50	4,491 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)
497-19-8 sodium carbonate		
Oral	LD-50	2,800 mg/kg (rat)
Dermal	LD-50	>2,000 mg/kg (rabbit) (EPA 16 CFR 1500.40 (Studienreport 1978))
Inhalative	LC-50/2 h	2,300 mg/m³ (rat)
15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)		
Oral	LD-50	1,034 mg/kg (rat)
Dermal	LD-50	>2,000 mg/kg (rabbit)
157627-86-6 Alkohole C13-C15 verzweigt und linear,ethoxyliert		
Oral	LD-50	1,150 mg/kg (rat)
3794-83-0 tetrasodium (1-hydroxyethylidene)bisphosphonate		
Oral	LD-50	1,100 mg/kg (rat)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide		
Oral	LD-50	2,000-5,000 mg/kg (rat) (OECD 401)
Dermal	LD-50	>2,000 mg/kg (rat) (OECD 402)

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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** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye damage.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

* 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
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)
497-19-8 sodium carbonate	
EC-50 48h	200-227 mg/l (Ceriodaphnia sp.) (Mobilität)
	256 mg/l (Daphnia magna)
LC-50 96h	300 mg/l (Blauer Sonnenbarsch)
	740 mg/l (gam)
	300 mg/l (Lepomis macrochirus) (Wirkungsgrundlage: Sterblichkeit)
15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)	
EC-50 48h	4.9 mg/l (Daphnia pulex)
EC-50 96h	70.7 mg/l (Pimephales promelas)
EC-50 140h	8 mg/l (algae)
NOEC (48h)	2 mg/l (Daphnia pulex)
NOEC (96h)	7.4 mg/l (Daphnia pulex)
157627-86-6 Alkohole C13-C15 verzweigt und linear,ethoxyliert	
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)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	
EC-50 17 h	63 mg/L (Pseudomonas putida) (ISO 10712)

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EC-50 48h (static)	>1-10 mg/l (Daphnia magna) (OECD 202)
EC-50 72h (static)	>10-100 mg/l (Desmodesmus subspicatus) (OECD 201)
LC-50 96h	>1-10 mg/l (Cyprinus carpio) (OECD 203)
NOEC 21 d	>1-10 mg/l (Daphnia magna) (OECD 211)
NOEC (72 d)	>0.1-1 mg/L (Oncorhynchus mykiss) (Durchflusstest)
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:**
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Do not allow product to reach ground water, water course or sewage system.
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.
· **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** 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, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **ADG, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **ADG, ADN, IMDG, IATA**	
· **Class**	Void

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· **Packing group** · **ADG, IMDG, IATA**	Void
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of Marpol 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**

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

15630-89-4	disodium carbonate, compound with hydrogenperoxide (2:3)	S5, S6
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

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

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

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**
disodium disilicate (30-50 %)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide (≥1-<2.5 %)

· **Hazard statements**
Causes serious eye damage.

· **Precautionary statements**
Wear protective gloves / eye 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.
Store in a dry place.

· **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.

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

· **Relevant phrases**
H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
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
Oxidising solids - Category 3: Oxidizing solids – Category 3
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**