

Safety Data Sheet

acc. to OSHA HCS


Printing date 05/08/2013

Reviewed on 05/08/2013

* 1 Identification

- **Product identifier**
- **Trade name:** Trebon Plus
- **Article number:** 2195
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation**
Superconcentrated heavy-duty detergent for white and coloured textiles for application in hard and soft water at 30-60-90°C (86-140-194 °F). Phosphate-free and NTA free.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
- **Manufacturer:**
Chemische Fabrik Kreussler & Co. GmbH
Postfach 120454
D-65082 Wiesbaden
- **Supplier:**
Kreussler Inc., 6103 Johns Road Suit 7, Tampa, FL 33634,
Phone 813-884-1499, Fax 813-884-1599,
Internet: www.kreussler.com, e-mail: office-tampa@kreussler.com
- **Information department:**
Abteilung TQM
Herr Vogel
+49 (0) 611 9271-175
Kurt.Vogel@kreussler.com
- **Emergency telephone number:** +49 (0) 611 9271-0

2 Hazard(s) identification

- **Classification of the substance or mixture**
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Harmful
Harmful if swallowed.
Irritant
Irritating to skin. Risk of serious damage to eyes.
 - **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
-
- **Label elements**
 - **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with directives on hazardous materials.
 - **Code letter and hazard designation of product:**
- 

Xn Harmful
- **Hazard-determining components of labeling:**
disodium carbonate, compound with hydrogenperoxide (2:3)
 - **Risk phrases:**
Harmful if swallowed.
Irritating to skin.
Risk of serious damage to eyes.

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- **Safety phrases:**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **Other hazards**

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

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

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

- **Dangerous components:**

	perfumes Xi R38-43; N R51/53	≤1%
13870-28-5	disodium disilicate Xi R41	30-50%
15630-89-4	disodium carbonate, compound with hydrogenperoxide (2:3) Xn R22; Xi R41; O R8	15-30%
497-19-8	sodium carbonate Xi R36	5.0-15%
106232-83-1	Alcohols C13-C15 branched and linear, ethoxylated Xn R22; Xi R41	1.0-5.0%
106232-83-1	Aliphatic alcohol, C13-15, predominantly linear, ethoxylated Xi R41; N R50	1.0-5.0%
1322-98-1	Benzenesulfonic acid, C10-13 alkyl derivatives, sodium salt Xi R38-41	1.0-5.0%
29329-71-3	(1-Hydroxyethyliden)bisphosphonsäure, Natriumsalz Xn R22; Xi R36	1.0-5.0%

- **Additional information:** For the wording of the listed risk 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:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Rinse with warm water.

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:** Immediately call a doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Danger** Danger of gastric perforation.

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- **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.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **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:**
Dispose contaminated material as waste according to item 13.
- **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** Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in dry conditions.
Protect from frost.
Protect from heat and direct sunlight.
- **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 item 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.
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

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Avoid contact with the eyes and skin.
Be sure to clean skin thoroughly after work and before breaks.

- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
PVC or PE gloves
Recommended thickness of the material: ≥ 0.4 mm
- **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
- **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:	Powder
Color:	White
· Odor:	Characteristic
· pH-value (10 g/l) at 20 °C (68 °F): 11.8	
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapor pressure:	Not applicable.
· Density at 20 °C (68 °F):	0.73 g/cm ³ (6.092 lbs/gal)
· Solubility in / Miscibility with Water:	Soluble.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

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10 Stability and reactivity

- **Reactivity**
- **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:**

13870-28-5 disodium disilicate

Oral	LD-50	2507 mg/kg (rat) (OECD 401)
Inhalative	LC-50/4 h	>3510 mg/m ³ (rat)

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

Oral	LD-50	1034 mg/kg (rat)
Dermal	LD-50	>2000 mg/kg (rabbit)

497-19-8 sodium carbonate

Oral	LD-50	4090 mg/kg (rat)
Inhalative	LC-50/2 h	2.3 mg/m ³ (rat)

106232-83-1 Alcohols C13-C15 branched and linear, ethoxylated

Oral	LD-50	>2000 mg/kg (rat)
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106232-83-1 Aliphatic alcohol, C13-15, predominantly linear, ethoxylated

Oral	LD-50	>2000 mg/kg (rat)
	EC-10 16 h	> 10000 mg/L (<i>Pseudomonas putida</i>)

1322-98-1 Benzenesulfonic acid, C10-13 alkyl derivatives, sodium salt

Oral	LD-50	>2000 mg/kg (rat) (OECD 401)
Dermal	LD-50	>2000 mg/kg (rat) (OECD 402)

29329-71-3 (1-Hydroxyethyliden)bisphosphonsäure, Natriumsalz

Oral	LD-50	1100 mg/kg (rat)
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- **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:
Harmful
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
68-12-2	N,N-dimethylformamide	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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* 12 Ecological information

- Toxicity

- Aquatic toxicity:

13870-28-5 disodium disilicate

EC-50 3 h	720 mg/l (Belebtschlamm)
EC-50 48h	491 mg/l (Daphnia magna) (OECD 202)
LC-50 48 h	491 mg/L (Daphnia magna)
LC-50 96h	>500 mg/l (Brachydanio rerio)
NOEC (72h)	18 mg/l (Scenedesmus subspicatus)

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

EC-50 140h	8 mg/l (Alge)
EC-50 48h	4.9 mg/l (Daphnia pulex)
EC-50 96h	70.7 mg/l (Pimephales promelas)
NOEC (48h)	2 mg/l (Daphnia pulex)
NOEC (96h)	7.4 mg/l (Daphnia pulex)

497-19-8 sodium carbonate

EC-50 48h	256 mg/l (Daphnia magna)
LC-50 96h	300 mg/l (Blauer Sonnenbarsch)
	740 mg/l (gam)

106232-83-1 Alcohols C13-C15 branched and linear, ethoxylated

EC-10	>1000 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)

106232-83-1 Aliphatic alcohol, C13-15, predominantly linear, ethoxylated

EC-50 48h	0.1 - 1 mg/l (aquatische Invertebraten)
EC-50 72h	0.1-1 mg/l (Scenedesmus subspicatus)
LC-50 96h	1-10 mg/l (Brachydanio rerio)

1322-98-1 Benzenesulfonic acid, C10-13 alkyl derivatives, sodium salt

EC-50 48h	>1-10 mg/l (Daphnia magna) (OECD 202, Teil 1)
EC-50 72h	>10-100 mg/l (Desmodesmus subspicatus) (OECD 201)
LC-50 96h	>1-10 mg/l (Cyprinus carpio) (OECD 203; ISO 7346; 92/69/EWG, C.1)

29329-71-3 (1-Hydroxyethyliden)bisphosphonsäure, Natriumsalz

EC-50 96h	>170 mg/l (Daphnia magna)
LC-50 96h	>100 mg/l (Oncorhynchus mykiss)

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

- **Other information:** The product is biodegradable.

- **Behavior 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.

The product may not be released into the environment without control.

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

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- **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 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, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	Void
· Label	-
· ADN/R Class:	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Danger code (Kemler):	-
· EMS Number:	-
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

* 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):**

68-12-2 | N,N-dimethylformamide

· **TSCA (Toxic Substances Control Act):**

13870-28-5 | disodium disilicate

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

497-19-8 | sodium carbonate

10543-57-4 | N,N'-ethylenebis[N-acetylacetamide]

106232-83-1 | Alcohols C13-C15 branched and linear, ethoxylated

106232-83-1 | Aliphatic alcohol, C13-15, predominantly linear, ethoxylated

1322-98-1 | Benzenesulfonic acid, C10-13 alkyl derivatives, sodium salt

29329-71-3 | (1-Hydroxyethyliden)bisphosphonsäure, Natriumsalz

57-50-1 | sucrose, pure

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27344-41-8	Dinatrium-2,2'-([1,1'-biphenyl]-4,4'-diyldivinylen)bis(benzolsulfonat)
9005-25-8	Starch
9014-01-1	Subtilisin
13463-67-7	titanium dioxide
66455-14-9	Primary alcohol ethoxylate
68-12-2	N,N-dimethylformamide

· **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.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

57-50-1	sucrose, pure	A4
9005-25-8	Starch	A4
13463-67-7	titanium dioxide	A4
68-12-2	N,N-dimethylformamide	A4

· **MAK (German Maximum Workplace Concentration)**

13463-67-7	titanium dioxide	3A
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canadian Substances Listings:**

· **Canadian Domestic Substances List (DSL):**

13870-28-5	disodium disilicate
15630-89-4	disodium carbonate, compound with hydrogenperoxide (2:3)
497-19-8	sodium carbonate
10543-57-4	N,N'-ethylenebis[N-acetylacetamide]
106232-83-1	Alcohols C13-C15 branched and linear, ethoxylated
106232-83-1	Aliphatic alcohol, C13-15, predominantly linear, ethoxylated
1322-98-1	Benzenesulfonic acid, C10-13 alkyl derivatives, sodium salt
29329-71-3	(1-Hydroxyethyliden)bisphosphonsäure, Natriumsalz
57-50-1	sucrose, pure
27344-41-8	Dinatrium-2,2'-([1,1'-biphenyl]-4,4'-diyldivinylen)bis(benzolsulfonat)
9005-25-8	Starch
9014-01-1	Subtilisin
13463-67-7	titanium dioxide
66455-14-9	Primary alcohol ethoxylate
68-12-2	N,N-dimethylformamide

· **Canadian Ingredient disclosure list (limit 0.1%)**

13870-28-5	disodium disilicate
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15630-89-4	disodium carbonate, compound with hydrogenperoxide (2:3)
497-19-8	sodium carbonate
10543-57-4	N,N'-ethylenebis[N-acetylacetamide]
106232-83-1	Alcohols C13-C15 branched and linear, ethoxylated
106232-83-1	Aliphatic alcohol, C13-15, predominantly linear, ethoxylated
1322-98-1	Benzenesulfonic acid, C10-13 alkyl derivatives, sodium salt
29329-71-3	(1-Hydroxyethyliden)bisphosphonsäure, Natriumsalz
57-50-1	sucrose, pure
27344-41-8	Dinatrium-2,2'-([1,1'-biphenyl]-4,4'-diyldivinyl)bis(benzolsulfonat)
9005-25-8	Starch
9014-01-1	Subtilisin
13463-67-7	titanium dioxide
66455-14-9	Primary alcohol ethoxylate
68-12-2	N,N-dimethylformamide

· **Canadian Ingredient disclosure list (limit 1%)**

497-19-8	sodium carbonate
1322-98-1	Benzenesulfonic acid, C10-13 alkyl derivatives, sodium salt

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Xn Harmful

· **Hazard-determining components of labeling:**

disodium carbonate, compound with hydrogenperoxide (2:3)

· **Risk phrases:**

Harmful if swallowed.

Irritating to skin.

Risk of serious damage to eyes.

· **Safety phrases:**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

* 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.

· **Department issuing MSDS:**

Abteilung TQM

Herr Vogel

+49 (0) 611/9271-175

· **Contact:** Herr Vogel

· *** Data compared to the previous version altered.**