

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/20/2013

Reviewed on 06/20/2013

* 1 Identification

- **Product identifier**
- **Trade name:** Trebon Color
- **Article number:** 2243
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation**
Highly concentrated detergent for coloured textiles made of cotton and blended fabrics.
- **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
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- **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**
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:**



Xi Irritant

- **Risk phrases:**
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.
After contact with skin, wash immediately with plenty of soap and water.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



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

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	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:**

	perfumes	Xi R38-43; N R51/53	≤1%
13870-28-5	disodium disilicate	Xi R41	30-50%
497-19-8	sodium carbonate	Xi R36	15-30%
10213-79-3	Disodium Metasilicate	C R34; Xi R37	5.0-15%
106232-83-1	Alcohols C13-C15 branched and linear, ethoxylated	Xn R22; Xi R41	1.0-5.0%
69227-21-0	alcohols C12 – C18 ethoxylated, propoxylated	Xi R38	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:** If symptoms persist consult doctor.

- **Information for doctor:**

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

No further relevant information available.

- **Danger** Danger of gastric perforation.

- **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**

In case of fire, the following can be released:

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Carbon monoxide (CO)

- **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** Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
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:**
Do not use light alloy receptacles.
Unsuitable material for receptacle: glass or ceramic.
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:** Keep receptacle tightly sealed.
- **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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.

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· **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:	Solid
· Color:	White
· Odor:	Characteristic

· **pH-value at 20 °C (68 °F):** 11· **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.
Undetermined.· **Density at 20 °C (68 °F):** 0.83 g/cm³ (6.926 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.

10 Stability and reactivity

· **Reactivity**· **Chemical stability**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

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- **Possibility of hazardous reactions**
Reacts with water and acids.
Reacts with light alloys in the presence of moisture to form hydrogen.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** aluminum
- **Hazardous decomposition products:** Hydrogen

* 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)

497-19-8 sodium carbonate

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

10213-79-3 Disodium Metasilicate

Oral	LD-50	1152 - 1349 mg/kg (rat)
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106232-83-1 Alcohols C13-C15 branched and linear, ethoxylated

Oral	LD-50	>2000 mg/kg (rat)
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69227-21-0 alcohols C12 – C18 ethoxylated, propoxylated

Oral	LD-50	>2000 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:
Irritant

- **Carcinogenic categories**

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

13463-67-7	titanium dioxide	2B
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

* 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)

497-19-8 sodium carbonate

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

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	740 mg/l (gam)
10213-79-3 Disodium Metasilicate	
EC-50 48h	1700 mg/l (Daphnia magna)
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)
69227-21-0 alcohols C12 – C18 ethoxylated, propoxylated	
LC-50 96h	1-10 mg/l (Leuciscus idus)

- **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.
Do not allow product to reach ground water, water course or sewage system.
The product may not be released into the environment without control.
- **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 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, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.

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- 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):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

13870-28-5	disodium disilicate
497-19-8	sodium carbonate
106232-83-1	Alcohols C13-C15 branched and linear, ethoxylated
3794-83-0	(1-Hydroxyethyliden)bis-phosphonsäure-Tetra-natrium-Salz
69227-21-0	alcohols C12 – C18 ethoxylated, propoxylated
110615-47-9	Deglucopyranose oligomeric C10 – C16 alkylglucoside
57-50-1	sucrose, pure
9005-25-8	Starch
9014-01-1	Subtilisin
13463-67-7	titanium dioxide
66455-14-9	Primary alcohol ethoxylate
7732-18-5	water, distilled, conductivity or of similar purity

· 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 established by ACGIH)

57-50-1	sucrose, pure	A4
9005-25-8	Starch	A4
13463-67-7	titanium dioxide	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

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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· **Canadien Substances Listings:**

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

13870-28-5	disodium disilicate
497-19-8	sodium carbonate
6132-04-3	Trinatriumcitratdihydrat
10213-79-3	Disodium Metasilicate
106232-83-1	Alcohols C13-C15 branched and linear, ethoxylated
3794-83-0	(1-Hydroxyethyliden)bis-phosphonsäure-Tetra-natrium-Salz
69227-21-0	alcohols C12 – C18 ethoxylated, propoxylated
110615-47-9	Deglucoopyranose oligomeric C10 – C16 alkylglucoside
57-50-1	sucrose, pure
9005-25-8	Starch
9014-01-1	Subtilisin
13463-67-7	titanium dioxide
66455-14-9	Primary alcohol ethoxylate
7732-18-5	water, distilled, conductivity or of similar purity

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

13870-28-5	disodium disilicate
497-19-8	sodium carbonate
6132-04-3	Trinatriumcitratdihydrat
10213-79-3	Disodium Metasilicate
106232-83-1	Alcohols C13-C15 branched and linear, ethoxylated
3794-83-0	(1-Hydroxyethyliden)bis-phosphonsäure-Tetra-natrium-Salz
69227-21-0	alcohols C12 – C18 ethoxylated, propoxylated
110615-47-9	Deglucoopyranose oligomeric C10 – C16 alkylglucoside
57-50-1	sucrose, pure
9005-25-8	Starch
9014-01-1	Subtilisin
13463-67-7	titanium dioxide
66455-14-9	Primary alcohol ethoxylate
7732-18-5	water, distilled, conductivity or of similar purity

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

497-19-8	sodium carbonate
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· **Product related hazard informations:**

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

· **Hazard symbols:**



Xi Irritant

· **Risk phrases:**

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.

After contact with skin, wash immediately with plenty of soap and water.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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- **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.

- **Department issuing MSDS:**

Kurt Vogel

Tel. +49 (0)611 9271-175

- **Contact:** Kurt Vogel

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

USA
