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 mixture
  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 Heiko Schmidt
      +49 (0) 611 9271-144
      Heiko.Schmidt@kreussler.com
  - Emergency telephone number: +49 (0) 611 9271-0

2 Hazard(s) identification

- Classification of the substance or mixture
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Dam. 1 H318 Causes serious eye damage.
- 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

- GHS label elements
  - The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms

GHS05

Signal word Danger

Hazard statements
- Causes skin irritation.
- Causes serious eye damage.

Precautionary statements
- Wear protective gloves / eye protection.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Trade name: Trebon Color

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.
If eye irritation persists: Get medical advice/attention.
Store in a dry place.

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.

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:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Hazard Classifications</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>perfumes</td>
<td>Xi R38-43; N R51/53</td>
<td>≤1%</td>
</tr>
<tr>
<td>13870-28-5 disodium disilicate</td>
<td>Xi R41</td>
<td>30-50%</td>
</tr>
<tr>
<td>497-19-8 sodium carbonate</td>
<td>Xi R36</td>
<td></td>
</tr>
<tr>
<td>157627-86-6 Alcohols C13-C15 branched and linear, ethoxylated</td>
<td>Xn R22; Xi R41</td>
<td>5.0-15%</td>
</tr>
<tr>
<td>10213-79-3 Disodium Metasilicate</td>
<td>C R34; Xi R37</td>
<td>1.0-5.0%</td>
</tr>
<tr>
<td>69227-21-0 alcohols C12 – C18 ethoxylated, propoxylated</td>
<td>Xi R38</td>
<td>1.0-5.0%</td>
</tr>
</tbody>
</table>

- **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:
  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.
Trade name: Trebon Color

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.
- **Protection of hands**:

  ![Protective gloves](image)

- **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](image)

- **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
    - **Odour threshold**: Not determined.
  - **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.
  - **Flammability (solid, gaseous)**: Not determined.
  - **Ignition temperature**:
    - **Decomposition temperature**: Not determined.
  - **Auto igniting**: Product is not selfigniting.
  - **Danger of explosion**: Product does not present an explosion hazard.
  - **Explosion limits**:
    - **Lower**: Not determined.
    - **Upper**: Not determined.
  - **Vapor pressure**: Undetermined.
  - **Density at 20 °C (68 °F)**: 0.83 g/cm³ (6.926 lbs/gal)
  - **Relative density**: Not determined.
  - **Vapour density**: Not applicable.
  - **Evaporation rate**: Not applicable.
Trade name: Trebon Color

- 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: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided:
    No decomposition if used according to specifications.
  - 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/m³ (rat)
    497-19-8 sodium carbonate
      Oral LD-50 2800 mg/kg (rat)
      Dermal LD-50 > 2000 mg/kg (rabbit) (EPA 16 CFR 1500.40 (Studienreport 1978))
      Inhalative LC-50/2 h 2300 mg/m³ (rat)
    157627-86-6 Alcohols C13-C15 branched and linear,ethoxylated
      Oral LD-50 >2000 mg/kg (rat)
    10213-79-3 Disodium Metasilicate
      Oral LD-50 1152 - 1349 mg/kg (rat)
    69227-21-0 alcohols C12 – C18 ethoxylated, propoxylated
      Oral LD-50 >2000 mg/kg (rat)
  - 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
Trade name: Trebon Color

- Carcinogenic categories
  
  - IARC (International Agency for Research on Cancer)
    13463-67-7 titanium dioxide 2B
  
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

**12 Ecological information**

- Toxicity
  
  **Aquatic toxicity:**
  13870-28-5 disodium disilicate
  
<table>
<thead>
<tr>
<th>Test</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-50 3 h</td>
<td>720 mg/l (Belebtschlamm)</td>
</tr>
<tr>
<td>EC-50 48h</td>
<td>491 mg/l (Daphnia magna) (OECD 202)</td>
</tr>
<tr>
<td>LC-50 48 h</td>
<td>491 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>LC-50 96h</td>
<td>&gt;500 mg/l (Brachydanio rerio)</td>
</tr>
<tr>
<td>NOEC (72 h)</td>
<td>18 mg/l (Scenedesmus subspicatus)</td>
</tr>
</tbody>
</table>

  497-19-8 sodium carbonate
  
<table>
<thead>
<tr>
<th>Test</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-50 48h</td>
<td>200 - 227 mg/l (Ceriodaphnia sp.) (Mobilität) 256 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>LC-50 96h</td>
<td>300 mg/l (Blauer Sonnenbarsch) 740 mg/l (gam)</td>
</tr>
<tr>
<td></td>
<td>300 mg/l (Lepomis macrochirus) (Wirkungsgrundlage: Sterblichkeit)</td>
</tr>
</tbody>
</table>

  157627-86-6 Alcohols C13-C15 branched and linear, ethoxylated
  
<table>
<thead>
<tr>
<th>Test</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-10</td>
<td>&gt;1000 mg/L (Belebtschlamm)</td>
</tr>
<tr>
<td>EC-50 48h</td>
<td>1-10 mg/l (Daphnia magna) (Literaturangabe)</td>
</tr>
<tr>
<td>EC-50 72h</td>
<td>1 - 10 mg/l (Scenedesmus subspicatus) (Literaturangabe)</td>
</tr>
<tr>
<td>LC-50 96h</td>
<td>1-10 mg/l (Brachydanio rerio)</td>
</tr>
</tbody>
</table>

  10213-79-3 Disodium Metasilicate
  
<table>
<thead>
<tr>
<th>Test</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-50 48h</td>
<td>1700 mg/l (Daphnia magna)</td>
</tr>
</tbody>
</table>

  69227-21-0 alcohols C12 – C18 ethoxylated, propoxylated
  
<table>
<thead>
<tr>
<th>Test</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC-50 96h</td>
<td>1-10 mg/l (Leuciscus idus)</td>
</tr>
</tbody>
</table>

- 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.

(Contd. on page 7)
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: Void

- Packing group
  - DOT, ADR, IMDG, IATA: Void

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 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
  - 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
    - 157627-86-6 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
    - 57-50-1 sucrose, pure
    - 9005-25-8 Starch
    - 13463-67-7 titanium dioxide
    - 9014-01-1 Subtilisin
    - 7732-18-5 water, distilled, conductivity or of similar purity

  - Proposition 65

  - Chemicals known to cause cancer:
    - 13463-67-7 titanium dioxide

(Contd. on page 8)
· 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)
    | Chemical | TLV | Category |
    |----------|-----|----------|
    | sucrose, pure | 57-50-1 | A4 |
    | Starch | 9005-25-8 | A4 |
    | titanium dioxide | 13463-67-7 | A4 |

  · MAK (German Maximum Workplace Concentration)
    | Chemical | MAK |
    |----------|-----|
    | titanium dioxide | 13463-67-7 | 3A |

  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    | Chemical | MAK |
    |----------|-----|
    | titanium dioxide | 13463-67-7 | |

· Canadien Substances Listings:
  
  · Canadien Domestic Substances List (DSL):
    | Chemical | CAS Number |
    |----------|------------|
    | disodium disilicate | 13870-28-5 |
    | sodium carbonate | 497-19-8 |
    | Trinatriumcitratdihydrat | 6132-04-3 |
    | Alcohols C13-C15 branched and linear, ethoxylated | 157627-86-6 |
    | Disodium Metasilicate | 10213-79-3 |
    | (1-Hydroxyethyliden)bis-phosphonsäure-Tetra-natrium-Salz | 3794-83-0 |
    | alcohols C12 – C18 ethoxylated, propoxylated | 69227-21-0 |
    | sucrose, pure | 57-50-1 |
    | Starch | 9005-25-8 |
    | titanium dioxide | 13463-67-7 |
    | Subtilisin | 9014-01-1 |
    | water, distilled, conductivity or of similar purity | 7732-18-5 |

  · Canadien Ingredient disclosure list (limit 0.1%)
    | Chemical | CAS Number |
    |----------|------------|
    | disodium disilicate | 13870-28-5 |
    | sodium carbonate | 497-19-8 |
    | Trinatriumcitratdihydrat | 6132-04-3 |
    | Alcohols C13-C15 branched and linear, ethoxylated | 157627-86-6 |
    | Disodium Metasilicate | 10213-79-3 |
    | (1-Hydroxyethyliden)bis-phosphonsäure-Tetra-natrium-Salz | 3794-83-0 |
    | alcohols C12 – C18 ethoxylated, propoxylated | 69227-21-0 |
    | sucrose, pure | 57-50-1 |
    | Starch | 9005-25-8 |
    | titanium dioxide | 13463-67-7 |
    | Subtilisin | 9014-01-1 |
    | water, distilled, conductivity or of similar purity | 7732-18-5 |

  · Canadien Ingredient disclosure list (limit 1%)
    | Chemical | CAS Number |
    |----------|------------|
    | sodium carbonate | 497-19-8 |

· GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms

GHS05

Signal word Danger

Hazard statements
Causes skin irritation.
Causes serious eye damage.

Precautionary statements
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.

If eye irritation persists: Get medical advice/attention.

Store in a dry place.

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

Department issuing SDS:
Departent TQM
Herr Heiko Schmidt
+49 (0) 611/9271-144

Contact: Herr Heiko Schmidt

Date of preparation / last revision 07/21/2015 / 10

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

* Data compared to the previous version altered.