1 Identification

· Product identifier
· Trade name: ClipK4
· Article number: 2197
· Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
· Application of the substance / the mixture
  Drycleaning detergent for dry cleaning machinery in SYSTEMK4 (patent pending)

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 Corr. 1B H314 Causes severe skin burns and eye damage.
  Eye Dam. 1 H318 Causes serious eye damage.
  Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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 severe skin burns and eye damage.
  Harmful to aquatic life with long lasting effects.

· Precautionary statements
  Wear protective gloves / eye protection.
Avoid release to the environment. 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. If on skin: Wash with plenty of water.

Classification system:

- **NFPA ratings (scale 0 - 4)**
  - Health = 2
  - Fire = 1
  - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - Health = 2
  - Fire = 1
  - 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.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Perfumes:</em> perfumes</td>
<td>≤1%</td>
</tr>
<tr>
<td><em>Chemical characterization:</em> Mixtures</td>
<td></td>
</tr>
<tr>
<td><em>Description:</em> Mixture of the substances listed below with nonhazardous additions.</td>
<td></td>
</tr>
<tr>
<td><strong>69011-36-5</strong> Alcohol C13 branched, ethoxylated</td>
<td>15-30%</td>
</tr>
<tr>
<td><strong>157627-86-6</strong> Alcohol C13-C15 branched and linear, ethoxylated</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>112-34-5</strong> 2-(2-butoxyethoxy)ethanol</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>577-11-7</strong> Sulfo succinat-sodiumsalt</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>120313-48-6</strong> Alcohol C12-C15 ethoxylated, propoxylated</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>9004-82-4</strong> Fatty alcohol ether-sulfate</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>68425-47-8</strong> Soyafattyacid-dietanolamid</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>69227-21-0</strong> Alcohol C12-C18 ethoxylated, propoxylated</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>68424-85-1</strong> Quaternary ammonium compounds, benzyl-C12-16-alkyl dimethyl, chlorides C R34; Xn R21/22; N R50</td>
<td>5.0-15%</td>
</tr>
<tr>
<td><strong>69011-36-5</strong> Alcohol C13 branched, ethoxylated</td>
<td>1.0-5.0%</td>
</tr>
<tr>
<td><strong>61789-77-3</strong> Quaternary ammonium compounds, dicocoalkyldimethyl, chlorides C R34; Xn R22; N R50</td>
<td>1.0-5.0%</td>
</tr>
<tr>
<td><strong>111-42-2</strong> 2,2'-iminodiethanol Xn R22-48/22; Xi R38-41</td>
<td>≤1%</td>
</tr>
</tbody>
</table>
4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Seek medical treatment in case of complaints.
- 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.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
  No further relevant information available.
  - 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 fire with 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.

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:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.
  - 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
  No special requirements.
  - Information about storage in one common storage facility
  Not required.
  - Further information about storage conditions
  None.
  - 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.
Safety Data Sheet  
acc. to OSHA HCS

Trade name: ClipK4

(Contd. of page 3)

40.1.3 Control parameters

- Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>112-34-5 2-(2-butoxyethoxy)ethanol (5.0-15%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV Long-term value: 67.5 mg/m³, 10 ppm</td>
</tr>
<tr>
<td>*Inhalable fraction and vapor</td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls

- General protective and hygienic measures:

  - Be sure to clean skin thoroughly after work and before breaks.
  - Do not eat, drink, smoke or sniff while working.
  - 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

  - Material of gloves

    PVC or PE gloves

    - Recommended thickness of the material: ≥ 0.4 mm

  - 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 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: Fluid
      - Color: Light yellow
      - Odor: Pleasant

    - pH-value at 20 °C (68 °F): 8.6

- Change in condition

  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.

- Flash point:

  - > 100 °C (> 212 °F) (ASTMD93[PMCC])

- Auto igniting:

  - Product is not selfigniting.

- Danger of explosion:

  - Product does not present an explosion hazard.

(Contd. on page 5)
Trade name: ClipK4

- Vapor pressure: Not determined.
- Density at 20 °C (68 °F): 1.01 g/cm³ (8.428 lbs/gal)
- Solubility in / Miscibility with Water: Not miscible or difficult to mix.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic at 20 °C (68 °F): 35 s (DIN 53211/4)
- Solvent content:
  - Organic solvents: 0.4 %
- 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.
  - 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:
    - 69011-36-5 Alcohols, C13 branched, ethoxylated
      - Oral LD-50 > 5000 mg/kg (rat)
    - 157627-86-6 Alcohols C13-C15 branched and linear, ethoxylated
      - Oral LD-50 >2000 mg/kg (rat)
    - 112-34-5 2-(2-butoxyethoxy)ethanol
      - Oral LD-50 3384 mg/kg (rat)
      - Dermal LD-50 2700 mg/kg (bunny)
    - 577-11-7 Sulfosuccinat-sodiumsalt
      - Oral LD-50 1900 mg/kg (rat)
    - 120313-48-6 alcohols C12 – C15 ethoxylated, propoxylated
      - Oral LD-50 >2000 mg/kg (rat)
    - 9004-82-4 Fatty alcohol ether-sulfate
      - Oral LD-50 >10000 mg/kg (rat)
      - Dermal LD-50 >2000 mg/kg (rat)
    - 68425-47-8 Soyafattyacid-diethanolamide
      - Oral LD-50 19700 mg/kg (rat)
    - 69227-21-0 alcohols C12 – C18 ethoxylated, propoxylated
      - Oral LD-50 >2000 mg/kg (rat)
    - 68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
      - Oral LD-50 795 mg/kg (rat)
      - Dermal LD-50 >5000 mg/kg (rat)
Trade name: ClipK4

### Irritant

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Oral LD-50</th>
<th>Dermal LD-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>69011-36-5 alcohols C13 branched, ethoxylated</td>
<td>500-2000 mg/kg (rat)</td>
<td>710 mg/kg (rat)</td>
</tr>
<tr>
<td>61789-77-3 Quaternary ammonium compounds, dicocoalkyl dimethyl, chlorides</td>
<td>300 - 2000 mg/kg (rat)</td>
<td>12200 mg/kg (bunny)</td>
</tr>
<tr>
<td>111-42-2 2,2'-iminodiethanol</td>
<td>710 mg/kg (rat)</td>
<td>12200 mg/kg (bunny)</td>
</tr>
</tbody>
</table>

**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)
  - 67-63-0 propan-2-ol 3
  - 111-42-2 2,2'-iminodiethanol 2B
- NTP (National Toxicology Program)
  None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients is listed.

### Ecological information

**Toxicity**

**Aquatic toxicity:**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>EC-10 (17 h)</th>
<th>EC-50 48h</th>
<th>LC-50 96h</th>
<th>EC-10 (17 h)</th>
<th>EC-50 48h</th>
<th>LC-50 96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>69011-36-5 Alcohols, C13 branched, ethoxylated</td>
<td>&gt;2500 mg/l (Belebtschlamm) (DIN 38412 Teil 8)</td>
<td>1-10 mg/l (Daphnia magna)</td>
<td>1-10 mg/l (Leuciscus idus) (DIN 38412 Teil 15)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>157627-86-6 Alcohols C13-C15 branched and linear, ethoxylated</td>
<td>&gt;1000 mg/L (Belebtschlamm)</td>
<td>1-10 mg/l (Daphnia magna)</td>
<td>1-10 mg/l (Leuciscus idus)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120313-48-6 alcohols C12 – C15 ethoxylated, propoxylated</td>
<td>1170 mg/l (Pseudomonas putida)</td>
<td>2850 mg/l (Daphnia magna)</td>
<td>1300 mg/l (Lepomis macrochirus)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68425-47-8 Soyafattyacid-diethanolamide</td>
<td>&gt;100 mg/l (Desmodesmus subspicatus)</td>
<td>&gt;100 mg/l (Brachydanio rerio)</td>
<td>&gt;100 mg/l (Brachydanio rerio)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Trade name: ClipK4

40.1.3

69227-21-0 alcohols C12 – C18 ethoxylated, propoxylated

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC-50 96h</td>
<td>1-10 mg/l (Leuciscus idus)</td>
</tr>
</tbody>
</table>

68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-20 (0.5h)</td>
<td>5 mg/l (Belebtschlamm) (OECD 209)</td>
</tr>
<tr>
<td>EC-50 48h</td>
<td>0.016 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>EC-50 72h</td>
<td>0.026 mg/l (Selenastrum capricomutum) (OECD 201)</td>
</tr>
<tr>
<td>LC-50 96h (static)</td>
<td>0.85 mg/l (Oncorhynchus mykiss) (OECD 203)</td>
</tr>
</tbody>
</table>

69011-36-5 alcohols C13 branched, ethoxylated

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC-50 96h</td>
<td>1-10 mg/l (Leuciscus idus)</td>
</tr>
</tbody>
</table>

61788-77-3 Quaternary ammonium compounds, dicocoalkyldimethyl, chlorides

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-50 3 h</td>
<td>&gt; 10 - 100 mg/l (Belebtschlamm)</td>
</tr>
<tr>
<td>EC-50 72h</td>
<td>&gt; 0.1 - 1 mg/l (Pseudokirchneriella subscapitata) (OECD-Prüfrichtlinie 201)</td>
</tr>
<tr>
<td>LC-50 48 h</td>
<td>&gt; 0.1 - 1 mg/l (Acartia Tonsa)</td>
</tr>
<tr>
<td>LC-50 96h</td>
<td>&gt; 0.1 - 1 mg/l (Brachydanio rerio) (OECD-Prüfrichtlinie 203)</td>
</tr>
</tbody>
</table>

111-42-2 2,2'-iminodiethanol

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-50 16h</td>
<td>&gt;1000 mg/l (Pseudomonas putida)</td>
</tr>
<tr>
<td>EC-50 48h (static)</td>
<td>55 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>EC-50 96h (static)</td>
<td>1-10 mg/l (Pseudokirchneriella subscapitata)</td>
</tr>
<tr>
<td>LC-0</td>
<td>0.2 mg/l (rat)</td>
</tr>
<tr>
<td>LC-50 96h (static)</td>
<td>&gt;100 mg/l (Pimephales promelas)</td>
</tr>
<tr>
<td>NOEC (21) d</td>
<td>0.1-1 mg/l (Daphnia magna)</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 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.

### 14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void

(Contd. on page 8)
40.1.3 · 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.

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  Not applicable.

· UN “Model Regulation”: -

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  No further relevant information available.

· Sara

  · Section 355 (extremely hazardous substances):
    None of the ingredient is listed.

  · Section 313 (Specific toxic chemical listings):
    67-63-0 propan-2-ol
    111-42-2 2,2’-iminodiethanol

· TSCA (Toxic Substances Control Act):
  All ingredients are listed.

· Proposition 65

  · Chemicals known to cause cancer:
    111-42-2 2,2’-iminodiethanol

  · 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)
    67-63-0 propan-2-ol A4
    111-42-2 2,2’-iminodiethanol A3

  · MAK (German Maximum Workplace Concentration)
    111-42-2 2,2’-iminodiethanol 3B

  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.
Trade name: ClipK4

### Canadien Substances Listings:

#### Canadien Domestic Substances List (DSL):

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>157627-86-6</td>
<td>Alcohols C13-C15 branched and linear, ethoxylated</td>
</tr>
<tr>
<td>112-34-5</td>
<td>2-(2-butoxyethoxy)ethanol</td>
</tr>
<tr>
<td>577-11-7</td>
<td>Sulfo succinat-sodiumsalt</td>
</tr>
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<td>120313-48-6</td>
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<td>9004-82-4</td>
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</tr>
<tr>
<td>69011-36-5</td>
<td>Alcohols C13 branched, ethoxylated</td>
</tr>
<tr>
<td>61789-77-3</td>
<td>Quaternary ammonium compounds, dicocoalkyldimethyl, chlorides</td>
</tr>
<tr>
<td>7791-18-6</td>
<td>Magnesiumchlorid-hexahydrat</td>
</tr>
<tr>
<td>7786-30-3</td>
<td>Magnesium chloric hexahydrate</td>
</tr>
<tr>
<td>56-81-5</td>
<td>Glycerol</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Propan-2-ol</td>
</tr>
<tr>
<td>111-42-2</td>
<td>2,2’-iminodiethanol</td>
</tr>
</tbody>
</table>

#### Canadien Ingredient disclosure list (limit 0.1%)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5</td>
<td>2-(2-butoxyethoxy)ethanol</td>
</tr>
<tr>
<td>577-11-7</td>
<td>Sulfo succinat-sodiumsalt</td>
</tr>
</tbody>
</table>

#### Canadien Ingredient disclosure list (limit 1%)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5</td>
<td>2-(2-butoxyethoxy)ethanol</td>
</tr>
</tbody>
</table>

### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS05</td>
<td>Safety Data Sheet acc. to OSHA HCS</td>
</tr>
</tbody>
</table>

**Signal word** Danger

**Hazard statements**

Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

**Precautionary statements**

Wear protective gloves / eye protection.
Avoid release to the environment.
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.
If on skin: Wash with plenty of water.

**National regulations:**

**Technical instructions (air):**

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NK</td>
<td>≤1</td>
</tr>
</tbody>
</table>

**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.

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**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
- Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.