1 Identification

· **Product identifier**

· **Trade name:** Peramon

· **Article number:** 2214

· **Relevant identified uses of the substance or mixture and uses advised against**
  No further relevant information available.

· **Application of the substance / the preparation** Acid-binding and hygienic stabilizer for solvent care

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
  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** 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.
  Wear suitable gloves and eye/face protection.

(Contd. on page 2)
### 36.1.0 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.

#### Dangerous components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5 2-(2-butoxyethoxy)ethanol</td>
<td>≥50%</td>
</tr>
<tr>
<td>63449-41-2 quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides</td>
<td>1.0-5.0%</td>
</tr>
<tr>
<td>577-11-7 Sulfo succinat-sodiumsalt</td>
<td>1.0-5.0%</td>
</tr>
<tr>
<td>68425-47-8 Soyafattyacid-diethanolamide</td>
<td>1.0-5.0%</td>
</tr>
<tr>
<td>69011-36-5 Alcohols, C13 branched, ethoxylated</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:** If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, 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 fires with water spray or alcohol resistant foam.
Trade name: Peramon

- **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**
  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** 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:**
<table>
<thead>
<tr>
<th>Component</th>
<th>TLV</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-34-5 2-(2-butoxyethoxy)ethanol (≥50%)</td>
<td>Long-term value: 67.5* mg/m³, 10* ppm</td>
<td></td>
</tr>
<tr>
<td>102-71-6 2,2',2''-nitrilotriethanol (5.0-15%)</td>
<td>Long-term value: 5 mg/m³</td>
<td></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:**
  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.

(Contd. on page 4)
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 breakthrough 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: Characteristic
Odour threshold: Not determined.

pH-value at 20 °C (68 °F): 9.7

Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

Flash point: > 100 °C (> 212 °F) (ASTMD93(PMCC))

Flammability (solid, gaseous): Not applicable.

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: Not determined.

Density at 20 °C (68 °F): 0.99 g/cm³ (8.262 lbs/gal)
Relative density Not determined.
Vapour density Not determined.
Evaporation rate Not determined.

Solubility in / Miscibility with
Water: Fully miscible.
36.1.0 · Partition coefficient (n-octanol/water): Not determined.

· Viscosity:
  Dynamic: Not determined.
  Kinematic at 20 °C (68 °F): 13 s (DIN 53211/4)

· 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:
      112-34-5 2-(2-butoxyethoxy)ethanol
        Oral LD-50 3384 mg/kg (rat)
        Dermal LD-50 2700 mg/kg (bunny)
      63449-41-2 quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides
        Oral LD-50 240 mg/kg (rat)
        Dermal LD-50 1560 mg/kg (rat)
      577-11-7 Sulfosuccinat-sodiumsalt
        Oral LD-50 1900 mg/kg (rat)
      68425-47-8 Soyafattyacid-diethanolamide
        Oral LD-50 19700 mg/kg (rat)
      69011-36-5 Alcohols, C13 branched, ethoxylated
        Oral LD-50 > 5000 mg/kg (rat)

· Primary irritant effect:
  · on the skin: No irritant effect.
  · on the eye: Irritating effect.
  · 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)
    102-71-6 2,2',2"-nitriotriethanol 3
    111-42-2 2,2'-iminodiethanol 3

· NTP (National Toxicology Program)
  None of the ingredients is listed.

(Contd. on page 6)
12 Ecological information

- Toxicity
  - Aquatic toxicity:
    112-34-5 2-(2-butoxyethoxy)ethanol
    EC-10 (17 h) 1170 mg/l (Pseudomonas putida)
    EC-50 24h 2850 mg/l (Daphnia magna)
    LC-50 96h 1300 mg/l (Lepomis macrochirus)
    NOEC (96h) >100 mg/l (Desmodesmus subspicatus)
    68425-47-8 Soyafattyacid-diethanolamide
    EC-50 > 100 mg/l (Pseudomonas putida)
    LC-50 >1 - 10 mg/l (Pseudomonas putida)
    69011-36-5 Alcohols, C13 branched, ethoxylated
    EC-10 (17 h) 2500 mg/l (Belebtschlamm)
    EC-50 48h 1-10 mg/l (Daphnia magna)
    LC-50 96h 1-10 mg/l (Leuciscus idus)
  - Persistence and degradability
  - Behavior in environmental systems:
  - Bioaccumulative potential
  - Mobility in soil
  - Additional ecological information:
    - General notes:
      The product may not be released into the environment without control.
      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.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects

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
  - Class Void

(Contd. on page 7)
Safety Data Sheet
acc. to OSHA HCS

Trade name: Peramon

- 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.

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):
      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)
      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.
    - OSHA-Ca (Occupational Safety & Health Administration)
      None of the ingredients is listed.
  - Canadien Substances Listings:
    - Canadien Domestic Substances List (DSL):
      112-34-5 2-(2-butoxyethoxy)ethanol
      102-71-6 2,2',2''-nitritriethanol
      63449-41-2 quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides
      577-11-7 Sulfoisuccinat-sodiumsalt
      68425-47-8 Soyafattyacid-diethanolamide
      111-42-2 2,2'-iminodiethanol
      56-81-5 glycerol

(Contd. of page 6)
Trade name: Peramon

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>68439-50-9</td>
<td>Alkohol C12-14, ethoxyliert</td>
</tr>
<tr>
<td>2372-82-9</td>
<td>N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine</td>
</tr>
<tr>
<td>2634-33-5</td>
<td>1,2-benzisothiazol-3(2H)-one</td>
</tr>
<tr>
<td>2682-20-4</td>
<td>2-methyl-2H-isothiazol-3-one</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
</tr>
</tbody>
</table>

- **Canadien Ingredient disclosure list (limit 0.1%)**
  - 112-34-5 2-(2-butoxyethoxy)ethanol
  - 102-71-6 2,2',2''-nitrilotriethanol
  - 63449-41-2 quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides
  - 577-11-7 Sulfo succinate-sodiumsalt
  - 68425-47-8 Soyafattyacid-diethanolamide
  - 111-42-2 2,2'-iminodiethanol
  - 56-81-5 glycerol

- **Canadien Ingredient disclosure list (limit 1%)**
  - 68439-50-9 Alkohol C12-14, ethoxyliert
  - 2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine
  - 2634-33-5 1,2-benzisothiazol-3(2H)-one
  - 2682-20-4 2-methyl-2H-isothiazol-3-one
  - 7732-18-5 water, distilled, conductivity or of similar purity

- **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.
  Wear suitable gloves and eye/face protection.

- **National regulations:**

- **Technical instructions (air):**
  - Class | Share in % |
  - NK    | ≥50        |

- **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.
Trade name: Peramon

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.