Reviewed on 05/27/2013

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.
- \cdot 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:
- · Manufacturer:

Chemische Fabrik Kreussler & Co. GmbH Postfach 120454 D-65082 Wiesbaden • **Supplier:** Kreussler Inc., 6103 Johns Road Suit 7, Tampa, FL 33634,

Kreussier 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.

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Classification system:
 NFPA ratings (scale 0 - 4)

Health = 2 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE1Fire = 1REACTIVITY0Reactivity = 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: | | |
|-------------------------|--|----------|
| 112-34-5 | 2-(2-butoxyethoxy)ethanol Xi R36 | ≥50% |
| 63449-41-2 | quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides C R34; Xn R21/22; N R50 | 1.0-5.0% |
| 577-11-7 | Sulfosuccinat-sodiumsalt Xi R38-41 | 1.0-5.0% |
| 68425-47-8 | Soyafattyacid-diethanolamide Xi R38-41 | 1.0-5.0% |
| 69011-36-5 | Alcohols, C13 branched, ethoxylated Xi R41 | 1.0-5.0% |

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- \cdot 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.
- \cdot 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.

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- 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.
- \cdot 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:

112-34-5 2-(2-butoxyethoxy)ethanol (≥50%)

- TLV Long-term value: 67.5* mg/m³, 10* ppm
 - *Inhalable fraction and vapor
- 102-71-6 2,2',2"-nitrilotriethanol (5.0-15%)

TLV Long-term value: 5 mg/m³

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

- · Exposure controls
- · Personal protective equipment:
- 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.

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· 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 General Information | chemical properties |
| · 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/cm ³ (8.262 lbs/gal) |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with | |
| Water: | Fully miscible. |

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| | (Contd. of page 4) |
|--|--------------------|
| ater): Not determined. | |
| | |
| Not determined. | |
| 13 s (DIN 53211/4) | |
| No further relevant information available. | |
| | 13 s (DIN 53211/4) |

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

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

| · IARC (Int | ternational Agency for Research on Cancer) | |
|-------------|--|----------------|
| 102-71-6 | 2,2',2"-nitrilotriethanol | 3 |
| 111-42-2 | 2,2'-iminodiethanol | 3 |
| · NTP (Nat | tional Toxicology Program) | |
| None of the | he ingredients is listed. | |
| | (Con | td. on page 6) |
| | | |

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Trade name: Peramon

12 Ecological information

| · Toxicity | | |
|-----------------|-------------------------------------|--|
| · Aquatic toxic | · Aquatic toxicity: | |
| 112-34-5 2-(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 S | oyafattyacid-diethanolamide | |
| EC-50 | > 100 mg/l (Pseudomonas putida) | |
| LC-50 | >1 -10 mg/l (Pseudomonas putida) | |
| 69011-36-5 A | Icohols, 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 No further relevant information available.

· 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 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 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.

| · UN-Number | | |
|-----------------------------------|------|--|
| · DOT, ADR, ADN, IMDG, IATA | Void | |
| · UN proper shipping name | | |
| \cdot DOT, ADR, ADN, IMDG, IATA | Void | |
| · Transport hazard class(es) | | |
| · DOT, ADR, ADN, IMDG, IATA | | |
| Class | Void | |

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| | | (Contd. of page 6) |
|---|--------------------------|--------------------|
| Packing group DOT, ADR, IMDG, IATA | Void | |
| Environmental hazards: Marine pollutant: | No | |
| · Special precautions for user | Not applicable. | |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of Not applicable. | |

*15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

| | (extremely hazardous substances): | |
|---------------------------------|--|--------------------|
| None of the | ingredient is listed. | |
| | B (Specific toxic chemical listings): | |
| 111-42-2 2, | 2'-iminodiethanol | |
| · TSCA (Toxi | c Substances Control Act): | |
| All ingredien | ts are listed. | |
| Proposition | | |
| | known to cause cancer: | |
| 111-42-2 2, | 2'-iminodiethanol | |
| | known to cause reproductive toxicity for females: | |
| None of the | ingredients is listed. | |
| | known to cause reproductive toxicity for males: | |
| None of the | ingredients is listed. | |
| | known to cause developmental toxicity: | |
| | ingredients is listed. | |
| | nity categories | |
| • | onmental Protection Agency) | |
| | ingredients is listed. | |
| • | hold Limit Value established by ACGIH) | |
| 111-42-2 2, | 2'-iminodiethanol | A3 |
| - | an Maximum Workplace Concentration) | |
| 111-42-2 2, | 2'-iminodiethanol | 3B |
| | National Institute for Occupational Safety and Health) | |
| None of the | ingredients is listed. | |
| · OSHA-Ca (0 | Occupational Safety & Health Administration) | |
| None of the | ingredients is listed. | |
| | ubstances Listings: | |
| | omestic Substances List (DSL): | |
| | 2-(2-butoxyethoxy)ethanol | |
| | 2,2',2"-nitrilotriethanol | |
| | quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | |
| | Sulfosuccinat-sodiumsalt | |
| | Soyafattyacid-diethanolamide | |
| | 2,2'-iminodiethanol | |
| 56-81-5 | glycerol | (Contd. on page 8) |
| | | |

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| | (Contd. of page 7) |
|---------------|--|
| | 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 |
| · Canadien Ir | ngredient 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 | Sulfosuccinat-sodiumsalt |
| 68425-47-8 | Soyafattyacid-diethanolamide |
| 111-42-2 | 2,2'-iminodiethanol |
| 56-81-5 | glycerol |
| 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 |
| · Canadien Ir | ngredient disclosure list (limit 1%) |
| 112-34-5 2- | (2-butoxyethoxy)ethanol |
| | 2',2"-nitrilotriethanol |
| 577-11-7 Si | ulfosuccinat-sodiumsalt |

· 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.

USA —

Safety Data Sheet acc. to OSHA HCS

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(Contd. of page 8) 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
- \cdot * Data compared to the previous version altered.