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## 1 Identification of substance

- **Product details**
- **Trade name:** Prenett C
- **Article number:** 2228-AA-001
- **Application of the substance / the preparation**  
Spotting and prespotting agent for drycleaning. For use with perc, hydrocarbon solvent and water
- **Manufacturer/Supplier:**  
Chemische Fabrik Kreussler & Co. GmbH  
Postfach 120454  
D-65082 Wiesbaden
- **Information department:**  
Abteilung TQM  
Herr Vogel  
+49 (0) 611 9271-175

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Preparation of surface-active substances

- **Dangerous components:**

	Aliphatic alcohol, C13-15, predominantly linear, ethoxylated Xn, N; R 22-41-50	15-24%
112-07-2	2-butoxyethyl acetate Xn; R 20/21	10-20%
108-93-0	cyclohexanol Xn; R 20/22-37/38	5.0-10%
577-11-7	Sulfosuccinat-sodiumsalt Xi; R 38-41	0.1-1.0%

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

## 3 Hazards identification

- **Hazard description:**  
Xn Harmful
- **Information pertaining to particular dangers for man 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.  
R 22 Harmful if swallowed.  
R 41 Risk of serious damage to eyes.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**  
Health = 2  
Fire = 1  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  
Health = 2  
Fire = 1  
Reactivity = 0

## 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Rinse with warm water.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.

### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Dilute with plenty of water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **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.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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

**112-07-2 2-butoxyethyl acetate**

REL	33 mg/m <sup>3</sup> , 5 ppm Skin
TLV	130 mg/m <sup>3</sup> , NIC-20 ppm NIC-A3

**108-93-0 cyclohexanol**

PEL	200 mg/m <sup>3</sup> , 50 ppm
REL	200 mg/m <sup>3</sup> , 50 ppm Skin
TLV	206 mg/m <sup>3</sup> , 50 ppm Skin

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
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.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves

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- **Material of gloves**  
PVC or PE gloves  
Recommended thickness of the material:  $\geq 0.4$  mm
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**  
PVC or PE gloves
- **Eye protection:** Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Characteristic

### · Change in condition

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

· <b>Flash point:</b>	> 100°C (> 212°F)
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density at 20°C (68°F):</b>	0.95 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>pH-value at 20°C (68°F):</b>	7.3
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	25 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
Acute oral toxicity: >2000mg/kg (Rats)  
calculated from data of constituent parts.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **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:  
Harmful

USA

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## 12 Ecological information

- **General notes:**

On the basis of the raw materials data, including in the product, the following ecological data are to expected.

bio-degradable

The surfactents including the product are biologically degradable to at least 90% (surfactant regulations of 4.6.86).

## 13 Disposal considerations

- **Product:**

- **Recommendation:** Smaller quantities can be disposed of with household waste.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **DOT regulations:**

- **Hazard class:** -
- **Packing group:** -
- **Label:** -

- **Land transport ADR/RID (cross-border):**

- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Packaging group:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -
- **UN Number:** -
- **Label:** -
- **Packaging group:** -
- **EMS Number:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -
- **UN/ID Number:** -
- **Label:** -
- **Packaging group:** -

## 15 Regulations

- **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):**

None of the ingredients is listed.

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· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **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.

· **Canada WHMIS**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the informations required by the CPR.

· **WHMIS Class** Not regulated under WHMIS

· **Product related hazard informations:**

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

· **Hazard symbols:**

Xn Harmful

· **Risk phrases:**

22 Harmful if swallowed.  
41 Risk of serious damage to eyes.

· **Safety phrases:**

24/25 Avoid contact with skin and eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36 Wear suitable protective clothing.

**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.

· **Department issuing MSDS:**

Abteilung TQM  
Herr Vogel  
+49 (0) 611/9271-175

· **Contact:** Herr Vogel