

Printing date 04/04/2005

Reviewed on 04/04/2005

## 1 Identification of substance

**Product details****Trade name:** Clip Comfort**Article number:** 2261-AA-01**Application of the substance / the preparation**

Concentrated drycleaning detergent with odour absorbant, neutral fragrance, excellent antistatic properties as well as bactericidal and comfort retexturing. Application in perc and hydrocarbon.

**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:**

Combination of anionic / nonionic surfactants, disinfectants, odour-absorbant and fragrance.

**Dangerous components:**

	nonionic surfactants Xi; R 38-41	5.0-10%
9004-82-4	Fattyalcoholethersufate 70% Xi; R 38-41	5.0-10%
	Dodecalbensulfonicacid potassiumsalt Xi; R 38-41	5.0-10%
	Aliphatic alcohol, C13-15, predominantly linear, ethoxylated Xn, N; R 22-41-50	2.5-5.0%

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

## 3 Hazards identification

**Hazard description:**

Xi Irritant

**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 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 skin contact:** Generally the product does not irritate the skin.

(Contd. on page 2)

USA

Printing date 04/04/2005

Reviewed on 04/04/2005

Trade name: Clip Comfort

(Contd. of page 1)

- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult 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:**  
Small spills - wash to sanitary sewer with plenty of water. Large spills - soak up with approved absorbent, shovel produkt into approved container for disposal. Wash area with plenty of water.

## 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:**  
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.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
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
- **Material of gloves**  
Recommended thickness of the material:  $\geq 0.4$  mm  
PVC or PE gloves
- **For the permanent contact gloves made of the following materials are suitable:**  
PVC or PE gloves
- **Eye protection:** Tightly sealed goggles

USA

(Contd. on page 3)

Trade name: Clip Comfort

(Contd. of page 2)

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Liquid
<b>Color:</b>	Dark yellow
<b>Odor:</b>	Characteristic

### · Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** > 100°C (> 212°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C (68°F):** 1.0 g/cm<sup>3</sup>

· **Solubility in / Miscibility with Water:** Fully miscible.

· **pH-value at 20°C (68°F):** 7.5

· **Viscosity:**  
**Dynamic at 20°C (68°F):** 125 mPas

· **Solvent content:**  
**Organic solvents:** 0 %

## 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:

Irritant

## 12 Ecological information

### · General notes:

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

bio-degradable

(Contd. on page 4)

**Trade name: Clip Comfort**

The surfactents including the product are biologically degradable to at least 90% (surfactant regulations of 4.6.86). (Contd. of page 3)

### 13 Disposal considerations

- **Product:**
- **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

- **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.
- **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.

(Contd. on page 5)

**Trade name: Clip Comfort**

(Contd. of page 4)

- **Cancerogeny 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:**

Xi Irritant

- **Risk phrases:**

41 Risk of serious damage to eyes.

- **Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

39 Wear eye/face protection.

## 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