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1 Identification of substance

- **Product details**
- **Trade name:** Clip Ind
- **Article number:** 2105-AA-001
- **Application of the substance / the preparation** Concentrated drycleaning
- **Manufacturer/Supplier:**
Chemische Fabrik Kreussler & Co. GmbH
Postfach 120454
D-65082 Wiesbaden
- **Information department:**
Abteilung TQM
Herr Vogel
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2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

	anionic surfactants	Xn; R 22	≥30 %
	non-ionic surfactants	Xn; R 22-36/38	5.0-15 %
112-34-5	2-(2-butoxyethoxy)ethanol	Xi; R 36	5.0-15%
64-17-5	ethanol	F; R 11	5.0-15%

- **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 38 Irritating to skin.
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 = 0
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
Health = 2
Fire = 0
Reactivity = 0

4 First aid measures

- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** 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.

(Contd. on page 2)

USA

Trade name: Clip Ind

(Contd. of page 1)

- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO2, 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:** Wear protective equipment. Keep unprotected persons away.
- **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:**
Keep ignition sources away - Do not smoke.
- **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.

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:**

64-17-5 ethanol

PEL	1900 mg/m ³ , 1000 ppm
REL	1900 mg/m ³ , 1000 ppm
TLV	1880 mg/m ³ , 1000 ppm

- **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 skin.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves
- **Material of gloves** PVC or PE gloves
- **Penetration time of glove material**
For the mixture of chemicals mentioned below the penetration time has to be at least 60 minutes.
- **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

(Contd. on page 3)

Printing date 09/28/2005

Reviewed on 09/28/2005

Trade name: Clip Ind

(Contd. of page 2)

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
PVC or PE gloves
- Eye protection: Tightly sealed goggles

9 Physical and chemical properties

· General Information

Form:	Fluid
Color:	Yellow
Odor:	Characteristic

· Change in condition

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

· Flash point: 36°C (97°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/cm³

· Solubility in / Miscibility with
Water: Fully miscible.

· pH-value at 20°C (68°F): 7.5

· Viscosity:
Kinematic at 20°C (68°F): 40 s (DIN 53211/4)

· Solvent content:
Organic solvents: 17.3 %

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: 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

USA

(Contd. on page 4)

Trade name: Clip Ind

(Contd. of page 3)

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is easily biodegradable.

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):**
- 112-34-5 | 2-(2-butoxyethoxy)ethanol
- 64-17-5 | ethanol
- **Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients is listed.

(Contd. on page 5)

Trade name: Clip Ind

(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)**

64-17-5 ethanol

A4

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

64-17-5 ethanol

5

- **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:**

38 Irritating to skin.

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.

37/39 Wear suitable gloves and 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

- *** Data compared to the previous version altered.**