

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 11.02.2008

Revision: 06.12.2005

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Spacer varnish gold
- **Article number:** 550 0000 5
- **Application of the substance / the preparation** Spacer varnish.
- **Manufacturer/Supplier:**  
bredent GmbH & Co.KG  
Weißenhörner Straße 2  
89250 Senden  
Tel: +49 (0) 7309/872-0  
Fax: +49 (0) 7309/872-24
- **Further information obtainable from:**  
R & D  
e-mail: R.D@bredent.com
- **Information in case of emergency:** (001)3523233500 (24 h)

## 2 Hazards identification

- **Hazard description:**



*Xi Irritant*  
*F Highly flammable*

- **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.  
Has a narcotizing effect.  
R 11 Highly flammable.  
R 36 Irritating to eyes.  
R 43 May cause sensitisation by skin contact.  
R 67 Vapours may cause drowsiness and dizziness.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate	Xi,  F; R 11-36-66-67	50-100%
	Acrylic polymers	Xi; R 43	10-25%

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

## 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.

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- If skin irritation continues, consult a doctor.*
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
  - **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
  - **Information for doctor:**
  - **The following symptoms may occur:**
    - Breathing difficulty
    - Dizziness
    - Nausea
    - Headache

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Can form explosive gas-air mixtures.  
In case of fire, the following can be released:  
Carbon monoxide (CO)
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:**  
Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Dispose contaminated material as waste according to item 13.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.  
Protect from heat.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.

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- Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from heat and direct sunlight.

## 8 Exposure controls/personal protection

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

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

141-78-6 ethyl acetate

OES	Short-term value: 400 ppm
	Long-term value: 200 ppm
	Rev

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - The usual precautionary measures are to be adhered to when handling chemicals.
  - 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.
  - Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

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## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 77°C

· **Flash point:** -4°C

· **Ignition temperature:** 460°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

### · Explosion limits:

**Lower:** 2.1 Vol %  
**Upper:** 11.5 Vol %

· **Density:** Not determined.

### · Solubility in / Miscibility with

**water:** Partly miscible.

## 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

### · Dangerous reactions

No dangerous reactions known.  
 Reacts with strong acids and alkali.  
 Reacts with oxidizing agents.

### · Dangerous decomposition products:

The following may be given off during a fire:  
 Ethanoic acid  
 Carbon monoxide and carbon dioxide

## 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values relevant for classification:

141-78-6 ethyl acetate

Oral	LD50	5620 mg/kg (rabbit)
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### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

### · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
 Irritant

· **Sensitisation** May cause sensitisation by skin contact.

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## 12 Ecological information

- **General notes:**

*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

## 13 Disposal considerations

- **Product:**

- **Recommendation**

*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

- **Uncleaned packaging:**

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

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

## 14 Transport information

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



- **ADR/RID class:** 3 Flammable liquids.

- **Danger code (Kemler):** 33

- **UN-Number:** 1993

- **Packaging group:** II

- **Hazard label:** 3

- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE), special provision 640D

- **Maritime transport IMDG:**



- **IMDG Class:** 3

- **UN Number:** 1993

- **Label** 3

- **Packaging group:** II

- **EMS Number:** F-E,S-E

- **Marine pollutant:** No

- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)

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



- **ICAO/IATA Class:** 3

- **UN/ID Number:** 1993

- **Label** 3

- **Packaging group:** II

- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)

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## 15 Regulatory information

· **Labelling according to EU guidelines:**

*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.*

· **Code letter and hazard designation of product:**

*Xi Irritant  
F Highly flammable*

· **Hazard-determining components of labelling:**

*Acrylic polymers*

· **Risk phrases:**

*11 Highly flammable.  
36 Irritating to eyes.  
43 May cause sensitisation by skin contact.  
67 Vapours may cause drowsiness and dizziness.*

· **Safety phrases:**

*16 Keep away from sources of ignition - No smoking.  
24/25 Avoid contact with skin and eyes.  
36/37 Wear suitable protective clothing and gloves.  
60 This material and its container must be disposed of as hazardous waste.*

## 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.*

· **Relevant R-phrases**

*11 Highly flammable.  
36 Irritating to eyes.  
43 May cause sensitisation by skin contact.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.*

· **Department issuing MSDS: R & D**

· **Contact: R & D**

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