SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

· Trade name: illbruck CY340 Adhesive

· MSDS code: A-I-CY340ADH

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture Adhesives

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:
tremco illbruck Productie B.V.
Vlietskade 1032, 4241 WC Arkel
T: +31 (0) 183568000, F: +31 (0) 183568100
msds@tremco-illbruck.com

· Further information obtainable from:
tremco illbruck Ltd
Coupland Road, Hindley Green, Wigan, WN2 4HT
T: +44 (0) 1942251400, F: +44 (0) 1942251410
www.tremco-illbruck.co.uk, uk.info@tremco-illbruck.com

1.4 Emergency telephone number:
During office hours tel.: +44 (0) 1942251400. At all other times please contact your national poisoning centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Signal word Warning

Contains:
ethyl 2-cyanoacrylate

Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

(Contd. on page 2)
Trade name: illbruck CY340 Adhesive

· Precautionary statements
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P271   Use only outdoors or in a well-ventilated area.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313   Get medical advice/attention.
P501   Dispose of contents/container in accordance with local/regional/national/international regulations.

· Supplemental information:
EUH208 Contains 1,4-dihydroxybenzene. May produce an allergic reaction.

· 2.3 Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures
· Description: Mixture of substances listed below with non-hazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 7085-85-0</td>
<td>ethyl 2-cyanoacrylate</td>
</tr>
<tr>
<td>EINECS: 230-391-5</td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
</tr>
<tr>
<td>CAS: 123-31-9</td>
<td>1,4-dihydroxybenzene</td>
</tr>
<tr>
<td>EINECS: 204-617-8</td>
<td>Mut. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Acute Tox. 4, H302; Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

· 4.1 Description of 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.
In case of unconsciousness place patient stably in side position for transportation.
· After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Do not pull solidified product off the skin.
If skin irritation continues, consult a doctor.
· After eye contact:
Rinse opened eye for several minutes under running water.
Seek immediate medical advice.
· After swallowing:
Do not induce vomiting; call for medical help immediately.
· 4.2 Most important symptoms and effects, both acute and delayed
Irritant to skin and mucous membranes.
Irritating to eyes.
Coughing
Allergic reactions

(Contd. on page 3)
44.1.2

· Information for doctor: No further relevant information available.
· Hazards No further relevant information available.
· 4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures
· 5.1 Extinguishing media
· Suitable extinguishing agents:
  CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  Use fire extinguishing methods suitable to surrounding conditions.
· 5.2 Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.
· 5.3 Advice for firefighters
· Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.

SECTION 6: Accidental release measures
· 6.1 Personal precautions, protective equipment and emergency procedures
  Wear protective clothing.
  Ensure adequate ventilation
· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
  Clean the affected area carefully; suitable cleaners are:
  Warm water
· 6.4 Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

SECTION 7: Handling and storage
· 7.1 Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
  Open and handle receptacle with care.
  Avoid contact with the eyes and skin.
  The usual precautionary measures are to be adhered to when handling chemicals.
· Information about fire - and explosion protection: The product is not flammable.
· 7.2 Conditions for safe storage, including any incompatibilities
· Storage:
  · Requirements to be met by storerooms and receptacles:
    Store only in unopened original receptacles.
  · Information about storage in one common storage facility: Protect from heat and direct sunlight.
  · Further information about storage conditions:
    Keep container tightly sealed.
    Store in dry conditions.

(Contd. of page 2)

GB
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: illbruck CY340 Adhesive

Storage temperature: +5 °C to +25 °C

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>WEL</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>7085-85-0</td>
<td>ethyl 2-cyanoacrylate</td>
<td>Short-term value: 1.5 mg/m³, 0.3 ppm</td>
<td></td>
</tr>
<tr>
<td>123-31-9</td>
<td>1,4-dihydroxybenzene</td>
<td>Long-term value: 0.5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Additional information:
The lists valid during the making were used as basis.

8.2 Exposure controls

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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter A

Protection of hands:

Protective gloves

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

Material of gloves

PVC gloves
Plastic 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.
Trade name: illbruck CY340 Adhesive

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - Form: Liquid
      - Colour: Colourless
    - **Odour:** Irritant
    - **Melting point/freezing point:** Undetermined.
    - **Initial boiling point and boiling range:** 100 °C
  - **Flash point:** 81 °C
  - **Explosive properties:** Product does not present an explosion hazard.
  - **Vapour pressure at 25 °C:** < 0.5 mm Hg
  - **Density at 20 °C:** 1.1 g/cm³
  - **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
  - **Viscosity:**
    - Dynamic at 20 °C: 200 mPas

- **9.2 Other information**
  - No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** Stable
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**
    No decomposition if used according to specifications.
  - **10.3 Possibility of hazardous reactions** Reacts with strong acids and oxidising agents.
  - **10.4 Conditions to avoid** Keep away from heat.
  - **10.5 Incompatible materials:** No further relevant information available.
  - **10.6 Hazardous decomposition products:**
    Nitrogen oxides
    Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: illbruck CY340 Adhesive

· LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th></th>
<th>LD/LC50 values</th>
</tr>
</thead>
<tbody>
<tr>
<td>7085-85-0 ethyl 2-cyanoacrylate</td>
<td>Oral LD50 &gt; 5000 mg/kg (rat)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>123-31-9 1,4-dihydroxybenzene</td>
<td>Oral LD50 320 mg/kg (rat)</td>
</tr>
</tbody>
</table>

· Primary irritant effect:
  · Skin corrosion/irritation
    Causes skin irritation.
  · Serious eye damage/irritation
    Causes serious eye irritation.
  · Respiratory or skin sensitisation
    Based on available data, the classification criteria are not met.

· Additional toxicological information:
  · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  · Germ cell mutagenicity
    Based on available data, the classification criteria are not met.
  · Carcinogenicity
    Based on available data, the classification criteria are not met.
  · Reproductive toxicity
    Based on available data, the classification criteria are not met.
  · STOT-single exposure
    May cause respiratory irritation.
  · STOT-repeated exposure
    Based on available data, the classification criteria are not met.
  · Aspiration hazard
    Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity
  · Aquatic toxicity: No further relevant information available.
· 12.2 Persistence and degradability
  · biodegradable
· 12.3 Bioaccumulative potential
  · Does not accumulate in organisms
· 12.4 Mobility in soil
  · No further relevant information available.
· Additional ecological information:
  · General notes:
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· 12.5 Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.
· 12.6 Other adverse effects
  · No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
· Recommendation
  · Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  · Disposal must be made according to official regulations.
  · Waste disposal key: UK : H4
44.1.2 European waste catalogue

- 08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

- Uncleaned packaging:

  - Recommendation:
  Dispose of packaging according to regulations on the disposal of packagings.
  Packagings that may not be cleansed are to be disposed of in the same manner as the product.
  Non contaminated packagings may be recycled.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA: Void

- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA: Void

- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA
  - Class: Void

- 14.4 Packing group
  - ADR, IMDG, IATA: Void

- 14.5 Environmental hazards:
  - Marine pollutant: No

- 14.6 Special precautions for user
  - Not applicable.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.

- UN "Model Regulation": Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- National regulations:
  - Other regulations, limitations and prohibitive regulations
  - Not applicable.

- Substances of very high concern (SVHC) according to REACH, Article 57
  - Not applicable.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
SECTION 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 phrases
  H302 Harmful if swallowed.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H318 Causes serious eye damage.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.
  H341 Suspected of causing genetic defects.
  H351 Suspected of causing cancer.
  H400 Very toxic to aquatic life.

· Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  SVHC: Substances of Very High Concern
  vPvB: very Persistent and very Bioaccumulative
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  Skin Sens. 1: Skin sensitisation – Category 1
  Muta. 2: Germ cell mutagenicity – Category 2
  Carc. 2: Carcinogenicity – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

· * Data compared to the previous version altered.*