1 Commercial product name and supplier

1.1 Commercial product name / designation

Polycol A

1.2 Application / use

2-component adhesive for polyester

1.3 Producer

Habasit AG, Römerstrasse 1, CH-4153 Reinach
Tel. ++41 (0) 61/ 715 15 15 Telefax ++41 (0) 61/ 715 15 55

1.4 Supplier

Habasit AG, Römerstrasse 1, CH-4153 Reinach
Tel. ++41 (0) 61/ 715 15 15 Telefax ++41 (0) 61/ 715 15 55

1.5 TOX emergency number

++41 (0) 1/ 251 51 51
(Toxicological Information Centre, CH–Zurich)

1.6 Product No.

Polycol A

2 Composition

2.1 Chemical characterisation

Linear polyester urethane (TPU) about 20% dissolved in ethyl acetate and toluene
CAS No.:
Ethyl acetate: 141-78-6
Toluene: 108-88-3

2.2 Hazardous components


<table>
<thead>
<tr>
<th>CAS No.</th>
<th>EC No.</th>
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</thead>
<tbody>
<tr>
<td>141-78-6</td>
<td>205-500-4</td>
<td>&gt;20%</td>
<td>Ethyl acetate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>EC No.</th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>203-525-9</td>
<td>&lt;20%</td>
<td>Toluene</td>
</tr>
</tbody>
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<td>F.R.11:Xn.R.20</td>
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</tbody>
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2.3 Further information

None

3 Hazards identification

Highly flammable. Harmful by inhalation. Irritating to eyes. In use, may form flammable/explosive vapour-air mixture.

4 First aid measures

4.1 Eye contact

In case of eye contact, thoroughly rinse with water and consult a doctor.

4.2 Skin contact

Rinse off immediately with soap and plenty of water. Remove soiled clothing and shoes. In case of irritation, consult a doctor.

4.3 Ingestion

Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

4.4 Inhalation

Take into fresh air. In case of difficulty with breathing, seek medical advice.

4.5 Further information

None
5 Fire-fighting measures
5.1 Suitable extinguishing media
   Water fog, carbon dioxide, dry chemical, foam, alcohol resistant foam.
5.2 Extinguishing media to avoid
   DO NOT USE WATER JET.
5.3 Further information
   During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Wear self-contained breathing apparatus.

6 Accidental release measures
   Do not allow to flow off into the drains or waters.
   Remove or keep away from sources of ignition.
   Ensure adequate venting.
   Clean up with absorbent material, then collect for disposal.

7 Handling and storage
7.1 Handling
   Ensure efficient venting while applying the product.
   Vapours of this product are heavier than air and will collect in low areas such as pits, storage tanks, and other confined areas.
   Flammable: keep away from possible ignition sources.
7.2 Industrial hygiene
   Avoid contact with skin and eyes and do not breathe vapours.
   Take off immediately all contaminated clothing.
   Wash hands before smoking or eating.
7.3 Storage
   Store containers tightly closed in a cool, well ventilated area.
7.4 Place of storage
7.5 Fire- and explosion protection
   Take precautionary measures against electrostatic charging.
   Keep away from sources of ignition.

8 Exposure controls / personal protection
8.1 Technical measures
   Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
8.2 Control of threshold limits
   Exposure guidelines see section 15.8.
8.3 Personal protective equipment
8.3.1 Respiratory protection
   Respiratory protection usually not required with adequate ventilation.
8.3.2 Hand protection
   Wear rubber gloves when handling.
8.3.3 Eye protection
   Use safety glasses.
8.3.4 Other
   Work clothing.

9 Physical and chemical properties
9.1 Appearance
   liquid
9.2 Color
   colourless
9.3 Odour
   esterlike
9.4 Change of physical state
   Start of boiling
   77 °C (1013 mbar)

Test method:
DIN 51761
EC Safety Data Sheet

Date of issue / Reference
30.04.04  HIL
Replaces version of
31.03.03  HIL
Date of printing
30.04.2004  Sheet no. 1205

9.5 Density 0.94 g/cm³ (20 °C)
9.6 Vapour pressure 98 mbar (20 °C)
9.7 Viscosity 3000 mPa·s (20 °C)
9.8 Solubility in water
   Soluble in acetone
   Soluble
   Slightly soluble
9.9 pH Not applicable
9.10 Flash point 5.5 °C (1013 mbar)
9.11 Ignition temperature 460 °C (1013 mbar)
9.12 Explosion limits
   Lower: 1.3 vol.% (1013 mbar)
   Upper: 11.5 vol.% (1013 mbar)
9.13 Further information None.

10 Stability and reactivity
10.1 Thermal decomposition No decomposition until start of boiling.
10.2 Hazardous decomposition products None determined.
10.3 Hazardous reactions None known.
10.4 Further information None.

11 Toxicological information
11.1 Acute toxicity TPU is not toxic.
   Ethyl acetate: LD₅₀ (oral, rat) = 11000 mg/kg
   Vapours may act as narcotics and cause headache.
   Toluene: LD₅₀ (oral, rat) = 5000 mg/kg
   Irritates skin and mucous membranes.
   Narcotic effect at higher concentration.
11.2 Subacute / chronic toxicity Not determined.
11.3 Further information Harmful by inhalation.

12 Ecological information
Polycol A has a small environmental hazard potential.
TPU is largely inert.
Ethyl acetate: in aqueous solution photo- and auto-oxidation forms ethanol and acetic acid.
The German 'Wassergefährdungs Klasse (WGK)' for this product is: 2
(self classification. The product has not been tested.)
Do not allow to flow off into the drains or waters.

13 Disposal considerations
National/regional regulations have to be observed. Individual packs to be added to the domestic waste, after evaporation of the solvents. Unopened or expired packs may be disposed of as special waste.
Dispose uncleaned packaging as the unused product.
13.1 EC waste key 08 04 09 adhesive