SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Polycol B

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

1.1. Product identifier

Product name  Polycol B
Product code  None.
UFI  8C00-60HM-5003-GT2S

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

Use of the Substance/Mixture  Curing chemical

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification  Habasit GmbH (Deutschland), Only Representative Babenbüßer Str. 31 D-64859 Eppertshausen +49 6071 969 0 (Mo - Fr, 7.30h - 17h)
SDS info: product.safety@habasit.com

National contact:
Habasit (UK) Limited
Habegger house
Gannex Park,
Dewsbury Road,
Elland,
West Yorkshire
HX5 9AF
Tel. +44 (0) 333 207 6570 (Mo - Fr, 8h - 17.30h)
E-Mail: info.uk@habasit.com

1.4. Emergency telephone number

NHS Direct in England or Wales: +44 (0)845 46 47
NHS 24 in Scotland (UK only): 08454 24 24 24
Poisons Information Centre of Ireland: 01 809 2566

Issuing date  19.03.2019
**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

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

- Serious eye damage/eye irritation, Cat. 2, H319
- Skin Sensitisation, Cat. 1, H317
- Specific target organ toxicity (single exposure, narcotic effects), Cat. 3, H336
- Flammable liquids, Cat. 2, H225

**Additional information**

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

**Signal Word**

Danger

**Hazard Statements**

- H225: Highly flammable liquid and vapour.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.

**Precautionary statements**

- P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P280e: Wear protective gloves/eye protection.
- P210b: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER/doctor if you feel unwell.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313: If eye irritation persists: Get medical advice/attention.

**Supplemental information**

- EUH066: Repeated exposure may cause skin dryness or cracking.
- EUH204: Contains isocyanates. May produce an allergic reaction.

**Product identifier**

- ethyl acetate, CAS-No. 141-78-6, EC-No. 205-500-4, REACH No. 01-2119475103-46-XXXX
- Aromatic Polyisocyanate, CAS-No. 53317-61-6
- Di-isocyanatotoluene (mixture of isomers), CAS-No. 26471-62-5, EC-No. 247-722-4, REACH No. 01-2119454791-34-0001, 01-2119454791-34-0006, 01-2119454791-34-0007

2.3. Other hazards

None known.
SECTION 3: Composition/information on ingredients

3.2. Mixtures
Contains isocyanates. See information supplied by the manufacturer.

<table>
<thead>
<tr>
<th>Components</th>
<th>CLP Classification</th>
<th>Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl acetate</td>
<td>50% - 75%</td>
<td>Eye Irrit. 2 H319, STOT SE 3 H336, Flam. Liq. 2 H225, EUH066</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS-No.: 141-78-6, EC-No.: 205-500-4, Index-No: 607-022-00-5, REACH No.: 01-2119475103-46-XXXX</td>
</tr>
<tr>
<td>Aromatic Polyisocyanate</td>
<td>20% - 30%</td>
<td>Eye Irrit. 2 H319, Skin Sens. 1 H317, EUH204</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS-No.: 53317-61-6</td>
</tr>
<tr>
<td>Di-isocyanatotoluene (mixture of isomers)</td>
<td>0.1% - 0.5%</td>
<td>Carc. 2 H351, Acute Tox. 1 H330, Skin Irrit. 2 H315, Eye Irrit. 2 H319, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Aquatic Chronic 3 H412</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS-No.: 26471-62-5, EC-No.: 247-722-4, Index-No: 615-006-00-4, REACH No.: 01-2119454791-34-0001, 01-2119454791-34-0006, 01-2119454791-34-0007</td>
</tr>
<tr>
<td>Tris-(p-isocyanatophenyl)-thiophosphat</td>
<td>10% - 20%</td>
<td>Acute Tox. 4 H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAS-No.: 4151-51-3, EC-No.: 223-981-9</td>
</tr>
</tbody>
</table>

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

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

Ingestion: Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed: Headache. Dizziness.

4.3. Indication of any immediate medical attention and special treatment needed: None known.
SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

**Extinguishing media which must not be used for safety reasons**
High volume water jet.

5.2. Special hazards arising from the substance or mixture
During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

5.3. Advice for firefighters

**Special protective equipment for firefighters**
In the event of fire, wear self-contained breathing apparatus.

**Specific methods**
Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

**Advice for non-emergency personnel**
Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Remove all sources of ignition.

**Advice for emergency responders**
Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Vapours are heavier than air and may spread along floors.

6.2. Environmental precautions
Prevent product from entering surface water or sewage.

6.3. Methods and material for containment and cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections
See chapter 8 and 13.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep away from sources of ignition - No smoking. Wear personal protective equipment. Vapours are heavier than air and may spread along floors. Provide appropriate exhaust ventilation at machinery. Do not breathe vapours/dust. Wash hands and exposed skin before eating, drinking or smoking and after work. Remove contaminated clothing and shoes.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store together with food.

7.3. Specific end use(s)
Use only in accordance with our recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure limit(s)

* ethyl acetate (CAS 141-78-6)
  Ireland - Occupational Exposure Limits - STELs: 1468 mg/m³ STEL
  Ireland - Occupational Exposure Limits - TWAs: 400 ppm STEL
  United Kingdom - Workplace Exposure Limits (WELs) - STELs: 734 mg/m³ STEL
  United Kingdom - Workplace Exposure Limits (WELs) - TWAs: 200 ppm TWA

* Aromatic Polyisocyanate (CAS 53317-61-6)
  Ireland - Occupational Exposure Limits - TWAs: 0.02 mg/m³ TWA (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate)
  Ireland - Occupational Exposure Limits - STELs: 0.07 mg/m³ STEL (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate)
  United Kingdom - Workplace Exposure Limits (WELs) - TWAs: 0.02 mg/m³ TWA (except Methyl isocyanate, as NCO)
  United Kingdom - Workplace Exposure Limits (WELs) - STELs: 0.07 mg/m³ STEL (except Methyl isocyanate, as NCO)

* Tris-(p-isocyanatophenyl)-thiophosphat (CAS 4151-51-3)
  Ireland - Occupational Exposure Limits - STELs: 0.07 mg/m³ STEL (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate)
  Ireland - Occupational Exposure Limits - TWAs: 0.02 mg/m³ TWA (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate)
  United Kingdom - Workplace Exposure Limits (WELs) - TWAs: 0.02 mg/m³ TWA (except Methyl isocyanate, as NCO)
  Sensitizers: Capable of causing occupational asthma
8.2. Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

Respiratory protection
In case of good ventilation no personal respiratory protective equipment required. In case of insufficient ventilation wear suitable respiratory equipment. Suitable respiratory equipment: ABEK-filter ABEK-P3-filter Respirator with filter for organic vapour

Hand protection
Protective gloves complying with EN 374. Gloves made of Butyl. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). The exact break through time can be obtained from the protective glove producer and this has to be observed. Do not wear leather gloves. Do not wear cotton gloves.

Eye protection
Safety glasses with side-shields conforming to EN166.

Skin and body protection
Long sleeved clothing.

Thermal hazards
No special measures required.

Environmental exposure controls
Dispose of waste product or used containers according to local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Solvent</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point/range:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point/range:</td>
<td>77°C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>-4°C</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td>10.5%(V) - 2.0%(V)</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>97 mbar (20°C)</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative density:</td>
<td>1.02 g/cm3 (20°C)</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
Partition coefficient (n-octanol/water): Not determined.
Autoignition temperature: Not determined.
Decomposition temperature: Not determined.
Viscosity: Not determined.
Explosive properties: liquid, flammable
Oxidising properties: None

9.2. Other information
General Product Characteristics This information is not available.

SECTION 10: Stability and reactivity

10.1. Reactivity No hazards to be specially mentioned.
10.2. Chemical stability Stable up to approximately 70 °C.
10.3. Possibility of hazardous reactions No hazards to be specially mentioned.
10.4. Conditions to avoid Heat, flames and sparks.
10.5. Incompatible materials None.
10.6. Hazardous decomposition products None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Information given is based on data on the components and the toxicology of similar products.
ethyl acetate (CAS 141-78-6)
Dermal LD50 Rabbit > 18000 mg/kg (JAPAN_GHS)
Inhalation LC50 Rat = 4000 ppm 4 h (HSDB)
Oral LD50 Rat = 5620 mg/kg (NLM_CIP)
Di-isocyanatotoluene (mixture of isomers) (CAS 26471-62-5)
Dermal LD50 Rabbit = 10000 mg/kg (JAPAN_GHS)
Inhalation LC50 Rat = 0.099 mg/L 4 h (JAPAN_GHS)
Oral LD50 Rat = 3060 mg/kg (JAPAN_GHS)

Skin corrosion/irritation No skin irritation.
Serious eye damage/eye irritation Causes eye irritation.
Respiratory / Skin Sensitisation Inhalation of aerosol or skin contact may cause sensitization of susceptible persons.
Carcinogenicity Contains no ingredient listed as a carcinogen.
Germ cell mutagenicity
Contains no ingredient listed as a mutagen.

Reproductive toxicity
Contains no ingredient listed as toxic to reproduction.

Specific target organ toxicity (single exposure)
Narcotic effects

Specific target organ toxicity (repeated exposure)
No data available

Aspiration hazard
No data available

Human experience
No data available.

Symptoms related to the physical, chemical and toxicological characteristics
Drowsiness Vertigo Causes headache, drowsiness or other effects to the central nervous system. Risk of explosion if heated under confinement.

Delayed and immediate effects and also chronic effects from short and long term exposure
Tiredness

SECTION 12: Ecological information

12.1. Toxicity
No data is available on the product itself.

Ethyl acetate (CAS 141-78-6)
Ecotoxicity - Water Flea - Acute Toxicity Data
EC50 48 h Daphnia magna 560 mg/L [Static] (EPA)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data
LC50 96 h Pimephales promelas 220 - 250 mg/L [flow-through] (EPA)
LC50 96 h Oncorhynchus mykiss 484 mg/L [flow-through] (IUCLID)
LC50 96 h Oncorhynchus mykiss 352 - 500 mg/L [semi-static] (EPA)

Di-isocyanatotoluene (mixture of isomers) (CAS 26471-62-5)
Ecotoxicity - Earthworm - No Observable Effect Concentration (NOEC) Data
NOEC 14 Days Eisenia foetida >=1000 mg/kg [soil dry weight] (IUCLID)

Ecotoxicity - Earthworm - Acute Toxicity Data
LC50 14 Days Eisenia foetida >1000 mg/kg [soil dry weight] (IUCLID)

12.2. Persistence and degradability
Partly biodegradable.

12.3. Bioaccumulative potential
No data available. Does not bioaccumulate.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects
No data available
**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste from residues / unused products</th>
<th>Dispose of as hazardous waste in compliance with local and national regulations. Can be incinerated, when in compliance with local regulations. 080501 - waste isocyanates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated packaging</td>
<td>Dispose of as unused product.</td>
</tr>
</tbody>
</table>

**SECTION 14: Transport information**

**ADR/RID**

UN 1993.
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethyl acetate, Isocyanates).
Class 3.
Packing group II.
ADR/RID-Labels 3.
Classification code F1.
Hazard identification no. 33.
Limited quantity 1 L.
Excepted quantity E2.
Tunnel restriction code D/E

**IMDG**

UN 1993.
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethyl acetate, Isocyanates).
Class 3.
Packing group II.
IMDG-Labels 3.
Limited quantity 1 L.
Excepted quantity E2.
EmS F-E, S-E.
Marine pollutant: No.

**IATA**

UN 1993.
Proper shipping name: Flammable liquid, n.o.s. (ethyl acetate, Isocyanates).
Class 3.
Packing group II.
IATA label 3.
Packing instruction (LQ): Y341 (1 L).
Packing instruction (cargo aircraft): 364 (60 L).

**Inland navigation ADN**

UN 1993.
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethyl acetate, Isocyanates).
Class 3.
Packing group II.
ADN labels 3.
Classification code F1.
Limited quantity 1 L.
Excepted quantity E2.
Further Information  
Dangerous goods in limited quantities of class max. 1 liter/innerpack.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information  
Contains isocyanates. See information supplied by the manufacturer.

ethyl acetate (CAS 141-78-6)  
EU - REACH (1907/2006) - List of Registered Substances: Present  
EU - REACH (1907/2006) - List of Registered Intermediates: Present ([205-500-4])

Aromatic Polyisocyanate (CAS 53317-61-6)  
EU - No-Longer Polymers List (67/548/EEC): NLP No. 500-120-8

Di-isocyanatotoluene (mixture of isomers) (CAS 26471-62-5)  
EU - REACH (1907/2006) - List of Registered Substances: Present  
EU - REACH (1907/2006) - List of Registered Intermediates: Present ([247-722-4])

Tris-(p-isocyanatophenyl)-thiophosphat (CAS 4151-51-3)  
EU - REACH (1907/2006) - List of Registered Substances: Present

15.2. Chemical safety assessment  
Not required.

SECTION 16: Other information

Revision Note  
This data sheet contains changes from the previous version in section(s): 2.2

Key or legend to abbreviations and acronyms  
CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)  
MAK: Occupational exposure limit.

Key literature references and sources for data  
Information taken from reference works and the literature.

Classification procedure  

Full text of phrases referred to under sections 2 and 3  
H225: Highly flammable liquid and vapour.  
H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H330: Fatal if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H412: Harmful to aquatic life with long lasting effects.

Training advice
The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.

Further information
Made in: Switzerland Habasit AG
Römerstrasse 1
4153 Reinach/BL, Switzerland
Phone: +41 (0)61 715 15 15 (Mo - Fr, 7.30h - 17h)
SDS info: product.safety@habasit.com

Instructions for use
For industrial application only. Use only in accordance with our recommendations.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.