

Safety Data Sheet

According to 91/155 EEC

Printing date 20.09.2007

Revision: 20.09.2007






1 Identification of substance:

- **Product details:**
- **Trade name:** Paste PU-S green
- **Application of the substance / the preparation** Adhesives
- **Manufacturer/Supplier:**
Forbo Siegling Pty. Ltd.
Unit 150/45 Gilby Road,
Mount Waverley Vic 3149
Ph.: 1300137933
Fax: 1300137944
- **Information department:**
Chemical Laboratory
Email: Claudius.Hayduk@forbo.com
- **Emergency information:** ++49 (0) 511-6704 0

2 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 117-81-7 EINECS: 204-211-0	bis(2-ethylhexyl) phthalate  T; R 60-61	2.5-10%
CAS: 584-84-9 EINECS: 209-544-5	4-methyl-m-phenylene diisocyanate  T+,  Xi; R 26-36/37/38-40-42/43-52/53	< 2.5%
CAS: 101-77-9 EINECS: 202-974-4	4,4'-diaminodiphenylmethane  T,  Xi; R 45-5-39/23/24/25-43-48/20/21/22-68	< 0.5%

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

3 Hazards identification

- **Hazard description:**



T Toxic

- **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 45 May cause cancer.
 - R 60 May impair fertility.
 - R 61 May cause harm to the unborn child.
 - R 23 Toxic by inhalation.
 - R 40 Limited evidence of a carcinogenic effect.
 - R 42/43 May cause sensitisation by inhalation and skin contact.
- Contains isocyanates. See information supplied by the manufacturer

- **Classification system**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

4 First aid measures

- **General information**

Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation**

Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** MSDB

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Mount respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **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:**

117-81-7 bis(2-ethylhexyl) phthalate	
NES ()	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³
584-84-9 4-methyl-m-phenylene diisocyanate	
NES ()	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen
101-77-9 4,4'-diaminodiphenylmethane	
NES ()	0.81 mg/m ³ , 0.1 ppm Sk

- **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

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Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 Do not inhale gases / fumes / aerosols.

- **Breathing equipment:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

Solvent resistant gloves
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Natural rubber, NR

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:** Goggles recommended during refilling.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Green
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: undetermined
Boiling point/Boiling range: 385 °C

- **Flash point:** 178 °C

- **Ignition temperature:** 370 °C

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

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 20 °C:** 1.10866 g/cm³

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

- **Viscosity:**

dynamic at 20 °C: 20500 mPas

- **Solvent content:**

Organic solvents: 0.0 %

- **Solids content:** 9.5 %

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

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11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

117-81-7 bis(2-ethylhexyl) phthalate

Oral	LD50	>30000 mg/kg (rat)
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Dermal	LD50	>24500 mg/kg (rabbit)
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101-77-9 4,4'-diaminodiphenylmethane

Oral	LD50	347 mg/kg (rat)
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- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:**

Sensitization possible through inhalation.

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:

Toxic

Harmful

Irritant

Carcinogenic

12 Ecological information:

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

117-81-7 bis(2-ethylhexyl) phthalate

Oral	EC50/48h	>100 mg/l (daphnia)
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Sensitisation	EC50/72h	>100 mg/l (algia)
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- **General notes:**

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

- **Product:**

- **Recommendation**



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

- **Waste disposal key:**

070208

Bez.: Polyurethanabfälle, Polyurethanschaum

- **European waste catalogue**

07 02 08	other still bottoms and reaction residues
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- **Uncleaned packagings:**

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

14 Transport information

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

- **ADR/RID class:** -

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- Maritime transport IMDG:
 - IMDG Class: -
 - Marine pollutant: No
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- Air transport ICAO-TI and IATA-DGR:
 - ICAO/IATA Class: -

15 Regulations

- **Australian Inventory of Chemical Substances**

117-81-7	bis(2-ethylhexyl) phthalate
584-84-9	4-methyl-m-phenylene diisocyanate
101-77-9	4,4'-diaminodiphenylmethane

- **Markings 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:**



T Toxic

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

4-methyl-m-phenylene diisocyanate
 4,4'-diaminodiphenylmethane
 bis(2-ethylhexyl) phthalate

- **Risk phrases:**

45 May cause cancer.
 60 May impair fertility.
 61 May cause harm to the unborn child.
 23 Toxic by inhalation.
 40 Limited evidence of a carcinogenic effect.
 42/43 May cause sensitisation by inhalation and skin contact.

- **Safety phrases:**

53 Avoid exposure - obtain special instructions before use.
 4 Keep away from living quarters.
 23 Do not breathe fumes.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 60 This material and its container must be disposed of as hazardous waste.

- **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

- **National regulations**

- **Technical instructions (air):**

Class	Share in %
I	1.8
NK	9.5

- **Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.

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**

26 Very toxic by inhalation.

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- 36/37/38 Irritating to eyes, respiratory system and skin.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
40 Limited evidence of a carcinogenic effect.
42/43 May cause sensitisation by inhalation and skin contact.
43 May cause sensitisation by skin contact.
45 May cause cancer.
48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
5 Heating may cause an explosion.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
60 May impair fertility.
61 May cause harm to the unborn child.
68 Possible risk of irreversible effects.

· **Department issuing MSDS:** Chemical Laboratory

· **Contact:**

C.Hayduk

Tel.-Nr. +49 511 6704 214

Fax-Nr. +49 511 6704 489

Mobil-Nr.+49 151 11741970

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