

SAFETY DATA SHEET

Acc. To EC/1907/2006 (REACH)

Product : **HE1908**

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Date : 01-10-2012

1. Name of product and company

- Product details :
- two component polyurethane adhesive – **component A**
- Information on manufacturer / supplier :
Address, telephone etc. :
Engineering Chemicals B.V.
Van Andelstraat 7
NL-4651 TA STEENBERGEN
Holland
Telephone : ..31-(0)167-566984
Telefax : ..31-(0)167-561118
Email : e-chem@e-chem.nl
Website : www.e-chem.nl
- Emergency information : Technical Department

2. Possible hazards

- Description of hazard : The A component contains H12MDI, which is a primary skin irritant and skin sensitizer with prolonged or heavy exposure to the monomeric isocyanate above the TLV of .005PPM. Although the A-component is reacted down to 12% H12MDI, precautions should still be enforced to assure working conditions are kept under the TLV.
- Special Information of particular dangers for man and environment : H12MDI vapours are heavier than air. Downdraft type ventilation is most effective.

3. Composition / Information on components

- Chemical characterization:
- Dangerous components: Dicyclohexylmethane-4, 4-Diisocyanate
Description : H12MDI CAS-No : 5124-30-1 Type : Value : 005ppm

4. First aid measures

- After inhaling : Move to clear area. Treat symptomatically.
- After skin contact : Wash immediately with soap and water. Then wash with polyethylene glycol (300 to 500 mol wt). Then again with soap and water.
- After eye contact : Flush with clean lukewarm water for at least 15 minutes
- After swallowing : Do not induce vomiting. Give 1 or 2 cups milk or water.
- Information for doctor : Treatment is essentially symptomatic.

5. Fire fighting measures

- Suitable extinguishing agents:
Dry chemical; Carbon Dioxide; Foam; Water spray for large fires.
- For safety reasons unsuitable extinguishing agents :
Water is least desirable due to the liquid nature of product.
- Special hazards caused by the material, the preparation itself, its products of combustion or emerging gases: NA

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6. Measures for accidental release

- Person related precautions : Thoroughly wash adhesive from skin with soap and water. Wash with polyethylene glycol (300 to 500 mol wt), then again with soap and water.
- Environment related precautions : Remove and dispose of according to local regulations
- Methods for cleaning / collecting : NA

7. Handling and storage

- Handling : Avoid contact with skin and eyes. Employee education and training in use of this product essential.
- Storage : Store in tightly closed containers.

8. Exposure restrictions and personal protective equipment

- Information on design of technical systems :
Reactive vapours heavier than air, downdraft ventilation preferred.
- Components with limits that need to be observed at the workplace
Description : H12MDI CAS-No :5124-30-1 Type : Value : .005ppm
Quantity: 12% of A component, 6.5% of total product.
- Personal protective equipment:
 - General protective and hygiene measures :
 - Breathing protection: Proper ventilation to keep under .005ppm
 - Hand protection : Rubber gloves
 - Eye protection : NA
 - Body protection : NA

9. Physical and chemical properties

Form : Liquid
Colour : Clear
Smell : Odourless
PH value : NA
Boiling point / boiling range : Not determined (Decomposes)
Melting point / melting range : Liquid above 25°C
Flash point : 200°C Pensky-Martens Closed Cup ASTM D-93
Ignition temperature : Not determined
Self-inflammability : NA
Danger of explosion : Only if in a tightly closed container in extreme heat
- Lower explosion limit : NA
- Upper explosion limit :
Fire supporting features :
Vapour pressure : Approximately 1.5 x 10⁻⁵ mmhg @ 25 °C
Bulk density : 1.12 kg per litre at 25°C
Water solubility : reacts (A component)
Fat solubility :
Distribution coefficient :
Viscosity : Approximately 3000 CPS
Additional information :

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10. Stability and reactivity

- Conditions to be avoided : Contact with moisture or other materials which react with isocyanate may cause polymerisation.
- Materials to be avoided : Water; Amines; Alcohols; Metal compounds.
- Dangerous substances produced by decomposition : By heat and fire; carbon dioxide, carbon monoxide, oxides of nitrogen.

11. Toxicological information

- General information on toxicity : The A component contains H12MDI, which can react to the moisture of the skin. In such occasion improved (down draft) ventilation will resolve this.
- Primary irritant effects :
 - On skin : Red, irritated skin.
 - On eyes : Mild irritation. Burning sensation
 - By inhalation : Medical conditions such as asthma, bronchitis or emphysema may be aggravated by inhaling isocyanate vapours.
 - Additional information: In its molten form : NA

12. Ecological information: NA

13. Advices for disposal

- Product : Product must be disposed of according to all local environmental control regulations.
- Uncleaned packagings : Empty containers must be handled with care due to product residue.

14. Information on transport

- Land transport (acc. to ADR/RID and GGVS/GGVE): non dangerous goods
ADR/RID/GGVS/GGVE-class:
Number/letter :
UN-number :
Technical description :
Marking :
- Ship transport (acc. to IMDG/GGV Sea): non dangerous goods
IMDG/GGV sea class :
Page :
UN number :
EMS number :
MFAG board number :
Marine pollutant :
Technical description :
Marking :
- Air transport (acc. to ICAO-TI and IATA-DGR): non dangerous goods
ICAO/IATA class :
UN-number :
Technical description :
Marking :

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15. Regulations

- Marking acc. to EC-regulations:
 - Hazard symbol :
 - R. phrases :
 - S. phrases :
 - Special markings: NA
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16. Other information

The information in this Safety Data Sheet is based on our present knowledge. However, it does not represent a guarantee for any specific product features and does not establish a contractual relationship.

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