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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision: 12.01.2009 Replaces the version of: 25.06.2008 PDF date: 12.01.2009  
Adh & Seal Comp Cartridge black 310ml Art.: 08901003

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

**Adh & Seal Comp Cartridge black 310ml**  
**Art.: 08901003**

#### Use of the substance/preparation

Adhesive  
Sealant

#### Company/undertaking identification

Würth UK Ltd 1 Centurion Way, Erith, UK-DA18 4AE Kent  
Telephone 020 8319 6000, Fax 020 8319 6400

Distributor: see point 16 of this EC safety data sheet

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

#### Emergency telephone

#### Advisory office in case of poisoning:

Tel.:  
+49 30 / 19240 Berlin

#### Telephone number of the company in case of emergencies:

Tel. 020 8319 6000 (08-00 h - 18-00 h)

### 2. HAZARDS IDENTIFICATION

#### To people

See point 11 and 15.  
Preparation is classified as hazardous in the sense of directive 1999/45/EC.  
May cause sensitization by inhalation.  
Contains isocyanates. See information supplied by the manufacturer.

#### To the environment

See point 12.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Gen. description: Polyurethane adhesive / sealing putty

Chemical name			
content %	Symbol Registration number (ECHA)	R-phrases DNEL	EINECS, ELINCS PNEC
4,4'-methylenediphenyl diisocyanate			
0,1 -< 1	Xn/Xi	40-20-48/20-36/37/38-42/43	202-966-0
Xylene			
1 - 2,5	Xn/Xi	10-20/21-38	215-535-7
Naphtha (petroleum), hydrodesulfurized heavy			
1 - 2,5	Xn/N	10-51-53-65-66-67	265-185-4

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For complete wording of the R-phrases, refer to point 16.

## 4. FIRST AID MEASURES

### 4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.  
Remove person from danger area.

### 4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

### 4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

### 4.4 Ingestion

Call doctor immediately - have Data Sheet available.  
Do not induce vomiting.

### 4.5 Special resources necessary for first aid

n.c.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Cool container at risk with water.

Foam

Extinction powder

CO2

Water jet spray

### 5.2 Extinguishing media which shall not be used for safety reasons

High volume water jet

### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Hydrogen chloride

Isocyanates

Metal oxides

### 5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

### 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

### 6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

If leakage occurs, dam up.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

Or:

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Collect mechanically and dispose of according to point 13.  
 Take precautions against electrostatic charges.  
 Use only explosion-protected tools.  
 Only use explosion-proof equipment.

## 7. HANDLING AND STORAGE

### 7.1 Handling

#### Tips for safe handling:

See point 6.1  
 Ensure good ventilation.  
 If applicable:  
 Switch on available suction system.  
 Avoid inhalation, and contact with eyes or skin.  
 Keep away from sources of ignition - Do not smoke.  
 Take precautions against electrostatic charges.  
 Use only explosion-protected tools.  
 Only use explosion-proof equipment.  
 Earth devices.  
 Use working methods according to operating instructions.  
 Observe directions on label and instructions for use.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Wash hands before breaks and at end of work.  
 No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.  
 Store product closed and only in original packing.  
 Remove possible causes of ignition - do not smoke.  
 Keep away from food, drink and animal feedingstuffs.  
 Do not store with oxidizing agents.

#### Special storage conditions:

See point 10  
 Store in a well ventilated place.  
 Protect against moisture and store closed.  
 Protect from direct sunlight and warming.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

Chemical Name	4,4'-methylenediphenyl diisocyanate		Content %:0,1 - < 1
WEL-TWA: 0,02 mg/m <sup>3</sup> (Isocyanates, all (as - NCO))	WEL-STEL: 0,07 mg/m <sup>3</sup> (Isocyanates, all (as - NCO))	---	
BMGV: 1 µmol urinary diamine/mol creatinine in urine (Isocyanate, post task)	Other information: Sen (Isocyanates, all (as - NCO))		

Chemical Name	4,4'-methylenediphenyl diisocyanate		Content %:0,1 - < 1
WEL-TWA: 0,02 mg/m <sup>3</sup> (Isocyanates, all (as - NCO))	WEL-STEL: 0,07 mg/m <sup>3</sup> (Isocyanates, all (as - NCO))	---	
BMGV: 1 µmol urinary diamine/mol creatinine in urine (Isocyanate, post task)	Other information: Sen (Isocyanates, all (as - NCO))		

Chemical Name	Xylene		Content %:1 - 2,5
WEL-TWA: 50 ppm (220 mg/m <sup>3</sup> ) (WEL), 50 ppm (221 mg/m <sup>3</sup> ) (EC)	WEL-STEL: 100 ppm (441 mg/m <sup>3</sup> ) (WEL), 100 ppm (442 mg/m <sup>3</sup> ) (EC)	---	
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV)	Other information: Sk (WEL)		

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Chemical Name	Xylene		Content %:1 - 2,5
WEL-TWA: 50 ppm (220 mg/m <sup>3</sup> ) (WEL), 50 ppm (221 mg/m <sup>3</sup> ) (EC)	WEL-STEL: 100 ppm (441 mg/m <sup>3</sup> ) (WEL), 100 ppm (442 mg/m <sup>3</sup> ) (EC)	---	
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV)	Other information: Sk (WEL)		

Chemical Name	Naphtha (petroleum), hydrodesulfurized heavy		Content %:1 - 2,5
WEL-TWA: 300 mg/m <sup>3</sup> (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		

Chemical Name	Naphtha (petroleum), hydrodesulfurized heavy		Content %:1 - 2,5
WEL-TWA: 300 mg/m <sup>3</sup> (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

OELV-8h = Occupational Exposure Limit Value (8-hour reference period) | OELV-15min = Occupational Exposure Limit Value (15-minute reference period) | BLV = Biological limit value | Other information: C1, C2 = carcinogenic substance, Cat. 1 or 2. Mut 1, 2 = mutagenic substance, Cat. 1 or 2. Repro 1, 2 = Substances known to be toxic for reproduction, Cat. 1 or 2. Sk = can be absorbed through skin. Asphyx = asphyxiant. Sen = Respiratory sensitizer.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

## 8.2 Exposure controls

### 8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Respiratory protection:

Filter ABEK

Hand protection:

Eye protection:

Skin protection:

If OES or MEL is exceeded.

Protective nitrile gloves (EN 374), Protective gloves in butyl rubber (EN 374).

Protective goggles (EN 166)

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.2 Environmental exposure controls

n.av.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Pastelike

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Colour:	According to specification
Odour:	Characteristic
pH-value undiluted:	n.av.
Boiling point/boiling range (°C):	n.av.
Melting point/melting range (°C):	n.av.
Flash point (°C):	> 70 (cc)
Vapour pressure:	n.c.
Density (g/ml):	~ 1,26 g/cm <sup>3</sup> (20°C)
Water solubility:	reacts with water
Viscosity:	n.c.

## 10. STABILITY AND REACTIVITY

### Conditions to avoid

See point 7  
Protect from humidity.  
Danger of bursting (explosion) when heated.  
Heating, open flame, ignition sources  
Do not use pressurised air for filling, unloading or handling.

### Materials to avoid

See point 7  
Oxidizing agents  
Avoid contact with other chemicals.  
Do not bring into contact with water.

### Hazardous decomposition products

See point 5.3

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

### Delayed and chronic effects

Sensitization:	Yes (inhalation)
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

### Further information

Classification according to calculation procedure.  
No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.  
The following may occur:  
Irritation of the eyes  
Irritation of the respiratory tract  
Irritation of the skin.  
Ingestion:  
Product is dangerous to health.

## 12. ECOLOGICAL INFORMATION

Water hazard class (Germany):	1
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	
AOX:	
k.D.v.	
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.

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## 13. DISPOSAL CONSIDERATIONS

### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

15 01 06 mixed packaging

Cleaned packaging:

Dispose using dual system.

## 14. TRANSPORT INFORMATION

### General statements

UN-Number: n.a.

### Road/Rail-transport (ADR/RID)

Class/packing group: n.a.

Classification code: n.a.

LQ: n.a.

### Transport by sea

IMDG-code: n.a. (class/packing group)

Marine Pollutant: n.a.

### Transport by air

IATA: n.a. (class/secondary danger/packing group)

### Additional information:

Non-dangerous material according to Transport Regulations.

## 15. REGULATORY INFORMATION

### Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Xn

Indications of danger: Harmful

R-phrases:

42 May cause sensitization by inhalation.

S-phrases:

23.b Do not breathe vapour.

24/25 Avoid contact with skin and eyes.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Additions:

Contains isocyanates. See information supplied by the manufacturer.

4,4'-methylenediphenyl diisocyanate

Observe restrictions: Yes

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC



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These details refer to the product as it is delivered.

Storage class VCI (Germany): 10/12

Revised points: 3

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).

40 Limited evidence of a carcinogenic effect.

20 Harmful by inhalation.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitization by inhalation and skin contact.

10 Flammable.

20/21 Harmful by inhalation and in contact with skin.

20/21 Also harmful by inhalation and in contact with skin.

38 Irritating to skin.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

65 Also harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

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### Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference

period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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