

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 19.03.2009

Revision: 19.03.2009

1 Identification of substance:

- **Product details:**
- **Trade name:** Autoshield XFC
- **Article number:** 74057A
- **Application of the substance / the preparation :** Polyurethane sealant
- **Manufacturer/Supplier:**
 Adheseal Pty Ltd
 2/8 Harvton st
 Stafford
 Qld 4053
 Australia
 Phone: 61 7 33560000
 Fax : 61 7 33560000
 Internet : <http://www.emfi.com>
- **E-mail address of the competent person responsible for the safety data sheet :**
mal@adheseal.com.au
- **Information department:** Laboratory

2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
R 42 May cause sensitisation by inhalation.
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.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**
 Product containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

- **Dangerous components:**

CAS: 1333-86-4 EINECS: 215-609-9	Carbon black	10-25%
CAS: 108-88-3 EINECS: 203-625-9	toluene ☒ Xn, ☒ Xi, ☠ F; R 11-38-48/20-63-65-67	2-5%
CAS: 64742-47-8 EINECS: 265-149-8	distillates (petroleum), light ☒ Xn; R 65-66	< 2.5%
CAS: 101-68-8 EINECS: 202-966-0	diphenylmethane-4,4'-diisocyanate ☒ Xn, ☒ Xi; R 20-36/37/38-40-42/43-48/20	< 1%

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

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation**
 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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- In case of unconsciousness, place patient stably in side position for transportation.*
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **The following symptoms may occur:**
Drowsiness
Headache
Dizziness
Nausea

5 Fire fighting measures

- **Suitable extinguishing agents**
Carbon dioxide
Foam
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Hydrogen cyanide (HCN)
Isocyanates
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation.
Keep away from ignition sources.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Do not close them (reaction with water forming carbon dioxide).

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from humidity and water.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· **Components with limit values that require monitoring at the workplace:**

1333-86-4 Carbon black

WEL Short-term value: 7 mg/m³
Long-term value: 3.5 mg/m³

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm
Long-term value: 191 mg/m³, 50 ppm
Sk

64742-47-8 distillates (petroleum), light

OEL Short-term value: 1200 mg/m³, 165 ppm

101-68-8 diphenylmethane-4,4'-diisocyanate

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Avoid close or long term contact with the skin.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke while working.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation:

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.

Short term filter device:

Filter AB

· **Protection of hands:**

PVA gloves of superior quality.

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.

· **Eye protection:** Tightly sealed goggles.

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

9 Physical and chemical properties:

· **General Information**

Form:	Pasty
Colour:	Black
Odour:	Light

· **Change in condition**

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	110°C

· **Flash point:** > 50°C

· **Flammability (solid)** The product is not subject to classification because its speed of combustion is lower than the limit of the regulation.

· **Self-ignition temperature:** > 200°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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- **Explosion limits:**
 - Lower:** 0.6 Vol %
 - Upper:** 8 Vol %
- **Density at 20°C:** 1.2
- **Solubility in / Miscibility with Water:** Insoluble
- **Volatile organic compounds (VOC) :** < 5 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions:**
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.
- **Dangerous products of decomposition:** None to our knowledge at room temperature.

11 Toxicological information

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

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rab)
Inhalative	LC50/4 h	5320 mg/l (mus)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:**
Sensitizing effect through inhalation is possible with prolonged exposure.
Sensitization possible through inhalation.
- **Sensitisation** May cause sensitisation by inhalation.

12 Ecological information:

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Incinerator for hazardous waste or authorized dump.
- **Waste disposal key:** 08 04 09*

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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:** -
- **Remarks:** Not hazardous

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Remarks:** Not hazardous

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Propper shipping name:** Not regulated
- **Remarks:** Not hazardous.

15 Regulations

- **Markings according to EU guidelines:**
The product has been classified and marked in accordance with EU directives.
- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:**
diphenylmethane-4,4'-diisocyanate
- **Risk phrases:**
42 May cause sensitisation by inhalation.
- **Safety phrases:**
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- **Special labelling of certain preparations:**
Contains isocyanates. See information supplied by the manufacturer.
- **Advised phrases:**
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28 After contact with skin, wash immediately with plenty of soap and water.
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
Sale to the general public is forbidden.

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. This data sheet is particularly in accordance with the european directives 1999/45/EC and 2001/59/EC ; it is written according to the european regulation 1907/2006/EC (annex II).

- **Relevant R-phrases**
11 Highly flammable.

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- 20 *Harmful by inhalation.*
- 36/37/38 *Irritating to eyes, respiratory system and skin.*
- 38 *Irritating to skin.*
- 40 *Limited evidence of a carcinogenic effect.*
- 42/43 *May cause sensitisation by inhalation and skin contact.*
- 48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*
- 63 *Possible risk of harm to the unborn child.*
- 65 *Harmful: may cause lung damage if swallowed.*
- 66 *Repeated exposure may cause skin dryness or cracking.*
- 67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing MSDS:** Laboratory

· **Contact:** Mr. Johnson

· **In accordance with the international standard :**

ISO 11014-1

An asterisk in the margin of a paragraph means amendments in comparison to the former version.

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