

SAFETY DATA SHEET

A.W.F. REPAIR BANDAGE

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	A.W.F. Repair Bandage
Supplier	A.W.F. SMS Ltd
Address	Unit I D Brymau 3 Estate River Lane Saltney Chester, CH4 8RQ
Phone Number	01244 - 677833
Fax Number	01244 - 677844

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
[ISOMERS & HOMOLOGUES)

CAS number	% by weight	EC number	Classification
009016-87-9	10 - 25%	202-966-0	Xn; R20, Xi; R36/37/38, R42/43

See section 16 for the full text of the R-phrases declared above

Occupational exposure limits, if available, are listed in section 8.

3. HAZARDS IDENTIFICATION

The substance is classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification Xi; R36/37/38, R42/43

Human health hazards

Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

See section 11 for more detailed information on health effects and symptoms.

4. FIRST AID MEASURES

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

Skin contact Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation occurs.

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention immediately.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO₂. Do not use water jet.

Special exposure hazards No specific hazard.

Hazardous thermal decomposition products

In a fire, the following may be released: carbon oxides (CO, CO₂) nitrogen oxides (NO, NO₂ etc.) Hydrogen cyanide (HCN).

Protection of fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Immediately contact emergency personnel. Use suitable protective equipment (section 8).

Environmental precautions Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up If emergency personnel are unavailable, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal.

7. HANDLING AND STORAGE

Handling Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage Store in original sealed containers at temperatures between 5° and 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
[ISOMERS & HOMOLOGUES)

Occupational exposure limits

EH40-WEL (United Kingdom (UK), 2005). Inhalation sensitizer

TWA: 0.02 mg/m 3 8 hours.

Exposure controls

Respiratory protection

A respirator is not needed under normal and intended conditions of product use.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. <1 hours (breakthrough time): disposable vinyl

Eye protection Safety glasses. Chemical splash goggles.

Skin protection Protective clothing. Repeated or prolonged contact with irritants may cause dermatitis.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid. (Sheet)

pH Not applicable.

Flash point Open cup: >250°C (482°F).

Odour Faint odour.

Boiling point >368°C (694.4°F)

Flammability Non-flammable.

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Explosion limits Not available.

Vapour pressure Not available.

Solubility Insoluble in cold water.

Evaporation rate Not available.

(butyl acetate = 1)

Auto-ignition temperature >400°C (752°F)

Oxidising properties Not available

Relative density Not available.

Vapour density Not available.

Octanol/water Not available.

partition coefficient

Melting point Not available

10. STABILITY AND REACTIVITY

Stability The product is stable.

Conditions to avoid Water reactive.

Materials to avoid Strong oxidising materials strong acids alcohols Amines Water

Hazardous decomposition products

In a fire, the following may be released: carbon oxides (CO, CO²) nitrogen oxides

(NO, NO² etc.) Hydrogen cyanide (HCN).

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion No known significant effects or critical hazards

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritating to eyes.

Acute toxicity

Ingredient name

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE [ISOMERS & HOMOLOGUES)

Test	Result	Route	Species
LD50	15000 mg/kg	Oral	Rat

Potential chronic health effects

Carcinogenicity No carcinogenic effect.

Mutagenicity No mutagenic effect.

Reproductive toxicity No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin Repeated skin exposure can produce local skin destruction or dermatitis.

Additional information No components of this material are listed as carcinogens by OSHA, NTP, ACGIH or IARC.

12. ECOLOGICAL INFORMATION

Ingredient name	Species	Period	Result
DIPHENYLMETHANE-4,4'-	Fish (LC50)	96 hours	>1000 mg/l
DI-ISOCYANATE [ISOMERS &	Daphnia (EC50)	24 hours	>1000 mg/l
HOMOLOGUES)			

Persistence/degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
AWF Repair Bandage	-	-	Not readily

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Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the environment.

Mobility Do not allow to enter drains or watercourses.

Other adverse effects No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste The classification of the product may meet the criteria for a hazardous waste.

14. TRANSPORT INFORMATION

International transport regulations

Additional information This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

15. REGULATORY INFORMATION

EU regulations

Hazard symbol/symbols Harmful

Risk phrases R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitisation by inhalation and skin contact.

Safety phrases S23- Do not breathe vapour/spray S24- Avoid contact with skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of soap and water. S36/37- Wear suitable protective clothing and gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Contains isocyanates. See information supplied by the manufacturer.

Contains DIPHENYLMETHANE-4,4'-DI-ISOCYANATE [ISOMERS & HOMOLOGUES) 202-966-0

Product use Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

- Consumer applications.

Other EU regulations

EU statistical classification 58063290

(Tariff Code)

National regulations

United States

SARA 313 toxic chemical notification and release reporting No products were found.

Germany Hazard class for water 1

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Europe

R20- Harmful by inhalation. R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitisation by inhalation and skin contact.

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Full text of classifications referred to in sections 2 and 3 - Europe

Xn - Harmful

Xi - Irritant

Further information

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC Canada - This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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