

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: A9434 PART B

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Adhesive component.

1.3. Details of the supplier of the safety data sheet

Company name: Apollo Chemicals Ltd
Sandy Way
Amington Industrial Estate
Tamworth
STAFFS
B77 4DS
UK
Tel: 01827 54281
Fax: 01827 53030
Email: sds@apolloadhesives.com

1.4. Emergency telephone number

Emergency tel: 01827 69662

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; Acute Tox. 4: H332; Carc. 2: H351; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 2: H371; -: EUH204

Classification under CHIP: Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20

Most important adverse effects: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer . May cause damage to organs through prolonged or repeated exposure through prolonged or repeated inhalative exposure. May cause damage to organs . through prolonged or repeated exposure through prolonged or repeated inhalative exposure. Contains isocyanates. May produce an allergic reaction.

2.2. Label elements

Label elements under CLP:

Hazard statements: H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

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H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351: Suspected of causing cancer .

H371: May cause damage to organs through prolonged or repeated exposure through prolonged or repeated inhalative exposure.

H373: May cause damage to organs . through prolonged or repeated exposure through prolonged or repeated inhalative exposure.

EUH204: Contains isocyanates. May produce an allergic reaction.

Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard



Precautionary statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical.

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Avoid contact with skin or clothes. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

Eye contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Ingestion: Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

Inhalation: Remove to fresh air. Get medical attention if irritation persists.

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4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Irritating to skin. There may be irritation and redness at the site of contact. Onset of symptoms may be delayed

Eye contact: Can cause severe irritation There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulty if inhaled. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Onset of symptoms may be delayed.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Dry chemical powder. Carbon dioxide. Alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear personal protective equipment. Ensure adequate ventilation Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Neutralise with water containing 1% wetting agent
To avoid build up of pressure due to the evolution of carbon dioxide, do not seal containers until fully reacted.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

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Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated, and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. Products freshly manufactured from isocyanates can contain incompletely reacted isocyanates and other dangerous substances.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Avoid contact with water or humidity. Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02mg/m ³	0.07mg/m ³	-	-

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m ³	0.07 mg/m ³	-	-

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

Hand protection: Chemical resistant protective gloves (EN 374). Suitable chemical resistant safety gloves (EN374) also with prolonged, direct contact (Recommended: Protective index6, corresponding >480 minutes of permeation time according to EN374); butyl rubber

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(0.7mm) coating thickness. nitrile rubber(0.4mm), chloroprene rubber (0.5mm),
Unsuitable materials: PVC 0.7mm coating thickness, PE laminate 0.1mm coating
thickness.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Protective clothing. Wearing of closed work clothing is required additionally to the stated
personal protection equipment. When using do not eat, drink or smoke. Hands and/or
face should be washed before breaks and at the end of the shift. At the end of the shift
the skin should be cleaned and skin-care agents applied.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow-brown

Odour: Earthy/ musty

Evaporation rate: Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Reacts with water.

Viscosity: Non-viscous

Flash point°C: >200

Autoflammability°C: >600

Vapour pressure: 0.01Pa

Relative density: 1.23

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Temperatures below 10 degC

10.5. Incompatible materials

Materials to avoid: Water. reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with
substances which contain active hydrogen Acids. Amines. Alcohols. Bases.

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10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>9400	mg/kg
ORAL	RAT	LD50	>10000	mg/kg

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

ORL	RAT	LD50	10,000	mg/kg
SKN	RBT	LD50	5,000	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
Respiratory/skin sensitisation	INH DRM	Based on test data
Carcinogenicity	--	Based on test data
STOT-single exposure	-	Based on test data
STOT-repeated exposure	-	Based on test data

Symptoms / routes of exposure

Skin contact: Irritating to skin. There may be irritation and redness at the site of contact. Onset of symptoms may be delayed

Eye contact: Can cause severe irritation There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulty if inhaled. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Onset of symptoms may be delayed.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

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Ecotoxicity values:

Species	Test	Value	Units
Aquatic plants	72H EC50	1640	mg/l
Daphnia magna	24H EC50	>1000	mg/l
Sludge	3H EC50	>100	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	>1000	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable. Inert.

12.3. Bioaccumulative potential

Bioaccumulative potential: No evidence for bioaccumulation.

12.4. Mobility in soil

Mobility: Reacts with water to form an insoluble polyurea. Do not discharge in to natural waters without pre-treatment.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Wet waste: Arrange for disposal by a licenced waste disposal company

Disposal of packaging: Arrange for disposal by a licenced waste disposal company

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This product is classified as a mixture. CLP classification for information only. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

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15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: EUH204: Contains isocyanates. May produce an allergic reaction.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

R20: Harmful by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect.

R42/43: May cause sensitisation by inhalation and skin contact.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

