

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

· **Trade name: 8810-B**

· **Other Means of Identification:** Black Rigid Urethane

· **Related Part Number:** 8810-Part B, 8810-375ML (B), 8810-2.55L (B), 8810-60L (B)

· **UFI:** K5N0-T0UF-700D-UCDK

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

· **Application of the substance / the mixture** Hardening agent/ Curing agent

· **Uses advised against** For industrial use only

### 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

MG Chemicals Ltd. (Head Office)  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA  
+(1) 905-331-1396  
info@mgchemicals.com

MG Chemicals  
Heame House, 23 Bliston Street  
Sedgely Dudley DY3 1JA.  
United Kingdom  
+(44) 1663 362888

MG Chemicalst Ltd.  
18-20, Msida Road,  
Gzira, GZR 1401  
MALTA

· **Further information obtainable from:** sds@mgchemicals.com

### 1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

Verisk 3E (Access code: 335388)

+(44) 20 3514787

+(1) 760 476 3961

UK Toll free: +(0) 800 680 0425

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 2)

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# Safety data sheet

## according to UK REACH

Trade name: 8810-B

(Contd. of page 1)



GHS07

Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

##### Hazard pictograms



GHS07 GHS08

##### Signal word Danger

##### Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues  
4,4'-methylenediphenyl diisocyanate

##### Hazard statements

H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.

##### Precautionary statements

P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing, and eye protection.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/Product Safety Department.  
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

#### Determination of endocrine-disrupting properties Endocrine Disruptor substance $\geq 0.1\%$ = none

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(Contd. on page 3)

Trade name: 8810-B

(Contd. of page 2)

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	50–70%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	30–50%

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation:

Remove person to fresh air and keep comfortable for breathing.

If feeling unwell: Call a POISON CENTRE or doctor.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

#### After skin contact:

Wash with plenty water.

If skin irritation or rash occurs: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice or attention.

#### After swallowing:

Rinse mouth.

Do NOT induce vomiting.

If symptoms persist consult doctor.

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

No further relevant information available.

(Contd. on page 4)

**Trade name: 8810-B**

(Contd. of page 3)

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture**

Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.

Prevent fire-fighting wash from entering waterway or sewer system.

· **Hazardous combustion products:**

Carbon Oxides (COx)  
Nitrogen Oxides (NOx)  
other toxic fumes

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Do not breathe the mist/vapors/spray/fumes.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect liquid in a sealable, chemical-resistant container.

Wash residue with a paper towel and place dirty towels in container.

Use soap and water to remove the last traces of residue.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Wear protective gloves and eye protection.

Wash hands and exposed skin thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace.

Use only outdoors or in a well-ventilated area.

Do not breathe mist, vapours, spray.

(Contd. on page 5)

Trade name: 8810-B

(Contd. of page 4)

In case of inadequate ventilation wear respiratory protection.

- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**  
Keep in a dry and clean area, away from incompatible substances
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**  
Keep container tightly sealed.  
Store locked up.
- **7.3 Specific end use(s)** See section 1.2

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

· <b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>9016-87-9 diphenylmethanediisocyanate, isomeres and homologues</b>	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
<b>101-68-8 4,4'-methylenediphenyl diisocyanate</b>	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
· <b>Ingredients with biological limit values:</b>	
<b>101-68-8 4,4'-methylenediphenyl diisocyanate</b>	
BMGV	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period of exposure Parameter: isocyanate-derived diamine

- **Additional information:**  
The lists valid during the making were used as basis.  
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.
- **8.2 Exposure controls**
  - **Appropriate engineering controls** No further data; see section 7.
  - **Individual protection measures, such as personal protective equipment**
    - **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
    - **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Advice should be sought from respiratory protection specialists.  
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

(Contd. on page 6)

**Trade name: 8810-B**

(Contd. of page 5)

· **Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

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.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Safety glasses or tightly sealed goggles: EN 166

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· <b>Physical state</b>	Liquid
· <b>Form:</b>	Viscous
· <b>Colour:</b>	Dark brown
· <b>Odour:</b>	Musty
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	≥204 °C
· <b>Flammability</b>	Non flammable
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not applicable
· <b>Upper:</b>	Not applicable
· <b>Flash point:</b>	>230 °C
· <b>Auto-ignition temperature:</b>	400 °C (9016-87-9 diphenylmethanediisocyanate, isomeres and homologues)
· <b>Decomposition temperature:</b>	>300 °C
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Insoluble.

(Contd. on page 7)

# Safety data sheet

according to UK REACH

Trade name: 8810-B

(Contd. of page 6)

<ul style="list-style-type: none"> <li>· <b>Partition coefficient n-octanol/water (log value)</b> Not determined.</li> <li>· <b>Vapour pressure at 20 °C:</b> 0 hPa (101-68-8 4,4'-methylenediphenyl diisocyanate)</li> <li>· <b>Relative density at 25 °C:</b> 1.24</li> <li>· <b>Vapour density (air=1):</b> Not determined.</li> <li>· <b>Particle characteristics</b> Not applicable.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>9.2.1 Information with regard to physical hazard classes</b> Not applicable</li> <li>· <b>9.2.2 Other safety characteristics</b> <ul style="list-style-type: none"> <li>· <b>Evaporation rate</b> Not determined. &lt;1 (ButAc=1)</li> <li>· <b>Ignition temperature:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product does not present an explosion hazard.</li> <li>· <b>Solvent content:</b> <ul style="list-style-type: none"> <li>· <b>Organic solvents:</b> Not available</li> <li>· <b>VOC (EC)</b> 0.00 %</li> <li>· <b>Solids content:</b> 80–120 %</li> </ul> </li> </ul> </li> </ul>

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Chemically stable at normal temperatures and pressures.
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
May undergo uncontrolled exothermic polymerization upon contact with incompatible substances or if heated above 175°C.
- **10.4 Conditions to avoid**  
Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.  
Direct sunlight
- **10.5 Incompatible materials:**  
Amines  
Alcohol  
Strong bases  
Water
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products known.  
Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Harmful if inhaled.

(Contd. on page 8)

# Safety data sheet

according to UK REACH

Trade name: 8810-B

(Contd. of page 7)

· <b>LD/LC50 values relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimates)</b>		
Inhalative	LC50/4 h	1.25–1.88 mg/L
<b>9016-87-9 diphenylmethanediisocyanate, isomeres and homologues</b>		
Inhalative	LC50/4 h	1.5 mg/L (ATE)
<b>101-68-8 4,4'-methylenediphenyl diisocyanate</b>		
Oral	LD50	2,200 mg/kg (mouse)
Inhalative	LC50/4 h	1.5 mg/L (ATE)

- **Primary irritant effect:**
  - **Skin corrosion/irritation** Causes skin irritation.
  - **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of Effects and Symptoms by Routes of Exposure**
  - **Eyes:**  
pain  
redness, serious irritation
  - **Skin:**  
rash, allergic contact dermatitis  
redness, irritation  
dry skin
  - **Inhalation:**  
irritation of the respiratory tract  
wheezing, shortness of breath, difficulty breathing  
mist or vapours may cause breathlessness, chest discomfort, and reduced pulmonary function
  - **Swallowed:**  
Low toxicity:  
irritation to the mouth, throat, esophagus, and stomach
- **Additional toxicological information:**
  - **Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
Prolonged or repeated exposure may cause skin allergies.

## · 11.2 Information on other hazards

· <b>Endocrine disrupting properties</b>
None of the ingredients is listed.

## SECTION 12: Ecological information

### · 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

### · 12.2 Persistence and degradability

No further relevant information available.

(Contd. on page 9)

Trade name: 8810-B

(Contd. of page 8)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
  - **Additional ecological information:**
    - **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation** This material and its container must be disposed of as hazardous waste.

· <b>European waste catalogue</b>	
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP13	Sensitising

- **Uncleaned packaging:**
  - **Recommendation:**  
Containers may still present a chemical hazard/ danger when empty.  
Dispose of contents in accordance with all local, regional, national, and international regulations.  
Where possible retain label warnings and SDS and observe all notices pertaining to the product.

## SECTION 14: Transport information

· <b>14.1 UN number or ID number</b> · <b>ADR, IMDG, IATA</b>	Not regulated
· <b>14.2 UN proper shipping name</b> · <b>ADR, IMDG, IATA</b>	Not regulated
· <b>14.3 Transport hazard class(es)</b> · <b>ADR, ADN, IMDG, IATA</b> · <b>Class</b>	Not regulated
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	Not applicable

(Contd. on page 10)

## Safety data sheet according to UK REACH

Page 10/11

Printing date 20.02.2025

Version number 4.01 (replaces version 4.00)

Revision: 08.10.2024

Trade name: 8810-B

(Contd. of page 9)

· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Not regulated

### SECTION 15: Regulatory information

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

· **Poisons Act**

· <b>Regulated explosives precursors (Part 1)</b>
None of the ingredients is listed.
· <b>Regulated poisons (Part 2)</b>
None of the ingredients is listed.
· <b>Reportable explosives precursors (Part 3)</b>
None of the ingredients is listed.
· <b>Reportable poisons (Part 4)</b>
None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 56a, 74

· <b>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>
None of the ingredients is listed.

· <b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>
None of the ingredients is listed.

· <b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
None of the ingredients is listed.

· <b>Regulation (EC) No 273/2004 on drug precursors</b>
None of the ingredients is listed.

· <b>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b>
None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 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.

(Contd. on page 11)

# Safety data sheet

## according to UK REACH

Trade name: 8810-B

(Contd. of page 10)

· **Relevant phrases**

- 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.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- EUH204 EUH204: Contains isocyanates. May produce an allergic reaction.

· **Classification according to Regulation (EC) No 1272/2008**

<ul style="list-style-type: none"> <li>Acute toxicity - inhalation</li> <li>Skin corrosion/irritation</li> <li>Serious eye damage/irritation</li> <li>Respiratory sensitisation</li> <li>Skin sensitisation</li> <li>Specific target organ toxicity (single exposure)</li> <li>Specific target organ toxicity (repeated exposure)</li> </ul>	<p>The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.</p>
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· **Department issuing SDS:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Date of previous version:** 10.07.2024

· **Version number of previous version:** 4.00

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **\* Data compared to the previous version altered.**