

**Safety Data Sheet  
in accordance with HSNO**

Printing Date: 31.01.2025

Version Number: 3.1

Revision Date: 31.01.2025

**1 Identification of the substance or mixture and of the supplier**

**Product identifier:**

Trade name: ***BITUTHENE® LIQUID MEMBRANE (E) (Part B)***

Relevant identified uses of the substance or mixture, and uses advised against: No further relevant information available.

Relevant identified uses of the substance or mixture: Waterproofing

Identified uses advised against: No further relevant information available.

**Details of the supplier of the safety data sheet:**

**Manufacturer/supplier:**

GCP Applied Technologies (UK) Limited  
487-488 Ipswich Road,  
Slough, Berkshire  
SL1 4EP

Tel: +44 (0)1753 490 000

Fax: +44 (0)1753 490 001

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De Neef Construction Chemicals BVBA  
Industriepark 8,  
2220 Heist-op-den-Berg,  
Belgium.

Tel: +32 15 24 93 60

Fax: +32 15 24 80 72

**Supplier:**

GCP Australia Pty. Ltd.  
14 Colebard Street West  
Archerfield, Queensland 4108  
Australia

Tel: 1800 334 444

Fax: +61 7-3275-7801

**Further information obtainable from:** APMSDS@gcpat.com

**Emergency telephone number:**

CHEMWATCH - 00 800 2436 2255 (free call)  
National Poison Centre - 0800 764-766 (0800 POISON)

**2 Hazards identification**

**Classification of the substance or mixture:**

Acute inhalation toxicity Category 4

Skin irritation Category 2

Eye irritation Category 2

Respiratory sensitisation Category 1

Skin sensitisation Category 1

Carcinogenicity – Category 2

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.

H351 Suspected of causing cancer.

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Specific target organ toxicity - single exposure Category 3 H335 May cause respiratory irritation.  
 Specific target organ toxicity - repeated exposure Category 2 H373 May cause damage to organs through prolonged or repeated exposure.  
 Hazardous to the aquatic environment chronic Category 3 H412 Harmful to aquatic life with long lasting effects.

**Label elements:**

**GHS label elements** The product is classified and labelled according to the Globally Harmonized System (GHS).

**Hazard pictograms**

GHS07 GHS08

**Signal word** Danger**Hazard-determining components of labelling:**

4,4'-Methylenediphenyl diisocyanate, oligomers  
 Hydrocarbons, C9-unsaturated, polymerized

**Hazard statements**

Harmful if inhaled.  
 Causes skin irritation.  
 Causes serious eye irritation.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause an allergic skin reaction.  
 Suspected of causing cancer.  
 May cause respiratory irritation.  
 May cause damage to organs through prolonged or repeated exposure.  
 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Do not breathe dust/fume/gas/mist/vapours/spray.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 [In case of inadequate ventilation] wear respiratory protection.  
 IF ON SKIN: Wash with plenty of water.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 Call a POISON CENTER/doctor if you feel unwell.  
 Get medical advice/attention if you feel unwell.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 Take off contaminated clothing and wash it before reuse.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards:** Restricted to professional users.

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

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vPvB: Not applicable.

### 3 Composition/Information on ingredients

#### Chemical characterization: Mixture:

**Description:** Mixture of substances listed below with non-hazardous additions.

#### Dangerous components:

25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers Respiratory sensitisation Category 1, H334; Carcinogenicity – Category 2, H351; Specific target organ toxicity - repeated exposure Category 2, H373 Acute inhalation toxicity Category 4, H332; Skin irritation Category 2, H315; Eye irritation Category 2, H319; Skin sensitisation Category 1, H317; Specific target organ toxicity - single exposure Category 3, H335	50-<100%
71302-83-5	Hydrocarbons, C9-unsaturated, polymerized Skin sensitisation Category 1, H317 Hazardous to the aquatic environment chronic Category 3, H412	30-<50%

### 4 First aid measures

**General information:** Get medical advice/attention if you feel unwell.

#### After inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF INHALED: Call a doctor if you feel unwell.

**After skin contact:** Wash with plenty of soap and water.

**After eye contact:** Rinse cautiously with water for several minutes.

#### After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Call for a doctor immediately.

#### Information for doctor:

**Most important symptoms and effects, both acute and delayed:**

May cause sensitisation by skin contact.

Irritating to eyes.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### 5 Fire fighting measures

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

#### Special hazards arising from the substance or mixture:

During heating or in case of fire poisonous gases are produced.

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information:** Collect contaminated fire fighting water separately. It must not enter the sewage system.

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## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

### Methods and material for containment and cleaning up:

Collect spillage.

Send for recovery or disposal in suitable receptacles.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### 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.

## 7 Handling and storage

### HANDLING

#### Precautions for safe handling:

Prevent formation of aerosols.

Do not eat, drink or smoke when using this product.

Store in a well-ventilated place. Keep container tightly closed.

Keep only in original packaging.

Use only outdoors or in a well-ventilated area.

**Information about fire - and explosion protection:** No special measures required.

### STORAGE

**Information about storage in one common storage facility:** Keep respiratory protective device available.

#### Further information about storage conditions:

Keep container tightly sealed.

Protect from frost.

Store in a dry place.

Keep cool.

**Specific end use(s):** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see section 7.

### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** Based on the lists valid at the date of SDS creation.

**Appropriate engineering controls** Local exhaust ventilation is recommended.

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### PERSONAL PROTECTIVE EQUIPMENT

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:**

Atmospheric levels should be maintained below the occupational exposure limits. When atmospheric levels exceed those limits or are unknown, respiratory protection is required.

For hand applications, unless monitoring data confirms that respiratory protection is not necessary, use an approved half-face air purifying respirator equipped with an organic vapor sorbent filter (EU Type A, NIOSH Black, etc.) and particulate pre-filter (EU Type P2, NIOSH N95, etc.).

Isocyanates (contained in this part and when mixed) are known as respiratory sensitisers.

For emergency response, an approved positive pressure Self Contained Breathing Apparatus (SCBA) or positive pressure air line with auxiliary self-contained air supply is recommended.

**Protection of hands:** Protective gloves.

**Material of gloves:** Nitrile rubber, NBR

**Penetration time of glove material:**

The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Protective goggles.

**Body protection:**

Protective work clothing.

Take off contaminated clothing.

## 9 Physical and chemical properties

### GENERAL INFORMATION

**Appearance:**

**Form:** Liquid.

**Colour:** Black.

**Odour:** Characteristic.

**Odour threshold:** Not determined.

**pH-value (~):** Not determined.

**Change in conditions:-**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** >290 °C

**Flash point:** >177 °C

**Flammability (solid, gas):** Not applicable.

**Auto-ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

**Ignition temperature:** Not determined.

**Explosive properties:** Product does not present an explosion hazard.

**Lower:** Not determined.

**Upper:** Not determined.

**Vapour pressure:** Not determined.

**Density at 20 °C:** 1 g/cm<sup>3</sup>

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

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### Solubility in/Miscibility with:-

**Water:** Not miscible or difficult to mix.

**Partition coefficient: n-octanol/water:** Not determined.

### VISCOSITY

**Dynamic:** Not determined.

**Kinematic:** Not determined.

### SOLVENT CONTENT

**VOC (EC):** 0.00 %

**Molecular weight** Not determined.

**Other information:** No further relevant information available.

## 10 Stability and reactivity

### Reactivity:

Stable under normal conditions.

No further relevant information available.

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

### Possibility of hazardous reactions

No dangerous reactions known.

No further relevant information available.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

### Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Hydrogen cyanide (prussic acid).

Nitrogen oxides (NOx).

## 11 Toxicological information

### Information on toxicological effects:

**ACUTE TOXICITY** Harmful if inhaled.

### LD/LC50 values relevant for classification:

#### 25686-28-6 4,4'-Methylenediphenyl diisocyanate, oligomers

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LC50, 4h	0.49 mg/l (rat)
	LC50	0.00224 mg/m <sup>3</sup> (rat)

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

### Inhalation:

Harmful if inhaled.

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

May cause respiratory irritation.

**Ingestion:** May cause damage to organs through prolonged or repeated exposure.

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**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** Suspected of causing cancer.**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.**Additional toxicological information:** Suspected of causing cancer.**GHS Health Hazards :****Carcinogenicity:** Category 2 - Suspected of causing cancer.

## 12 Ecological information

**Toxicity:****AQUATIC TOXICITY** No further relevant information available.**Persistence and degradability:** No further relevant information available.**BEHAVIOUR IN ENVIRONMENTAL SYSTEMS****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**ADDITIONAL ECOLOGICAL INFORMATION****General notes:**

Harmful to aquatic organisms.

Harmful to aquatic life with long lasting effects.

**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.

## 13 Disposal considerations

**Waste treatment methods:****Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**UNCLEANED PACKAGING****Recommendation:** Disposal must be made according to official regulations.

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### 14 Transport information

**UN-Number**  
NZS, IMDG, IATA Not Regulated

**UN proper shipping name**  
NZS, IMDG, IATA Not Regulated

**Transport hazard class(es)**  
NZS, ADN, IMDG, IATA  
Class Not Regulated

**Packing group**  
NZS, IMDG, IATA Not Regulated

**Environmental hazards:** Not applicable.

**Special precautions for user:** Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not Regulated

### 15 Regulatory information

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

See Section 2 for hazard identification.

**HSNO Approval Number**

**HSNO Approval numbers**

None of the ingredients is listed.

**Registered in the international inventory lists:** NZIoC (New Zealand)

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

### 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.

**Department issuing SDS:**

EHS Department,  
Asia Pacific Region  
GCP Applied Technologies Operations Center, Inc.,  
CTP Asean Tower, Upper Penthouse, Unit 1,  
2397 Asean Drive, Spectrum District, Filinvest Alabang, 1781,  
Muntinlupa City, Philippines  
Tel: + 63 2 8271 2300

**The first date of preparation:** 19.02.2024

**Number of revision times and the latest revision date:** 3.1 / 31.01.2025