

## Safety Data Sheet according to WHS Regulations

Printing Date: 29.09.2022

Version Number: 1.0

Revision Date: 29.09.2022

### 1 Identification

**Product identifier:**Trade name: *Bituthene Liquid Membrane Part B***Relevant identified uses of the substance or mixture, and uses advised against:**

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  
2325 Lakeview Pkwy  
Alpharetta GA 30009 USAGCP Canada, Inc.  
294 Clements Road W.  
Ajax, Ontario L1S 3C6 CanadaGCP Australia Pty. Ltd.  
14 Colebard Street West  
Archerfield, Queensland 4108  
AustraliaFurther information obtainable from: [APMSDS@gcpat.com](mailto:APMSDS@gcpat.com)**Emergency telephone number:**

After hours - Tel. No. 1800 039 008

86-532-83889090

### 2 Hazard(s) Identification

**Classification of the substance or mixture:**

Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Carc. 2	H351 Suspected of causing cancer.
STOT SE 3	H335 May cause respiratory irritation.
STOT RE 1	H372 Causes damage to organs through prolonged or repeated exposure.

**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:**Methylenediphenyl diisocyanate, mixture of isomers  
Diphenylmethane-4,4'-di-isocyanate  
Methylenebis(isocyanatobenzene) polymer

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**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.  
 Causes damage to organs through prolonged or repeated exposure.

**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.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing should not be allowed out of the workplace.  
 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.

**Information concerning particular hazards for human and environment:**

**Description of Classification:** Classified as hazardous according to the criteria of Safe Work Australia.

**Other hazards:****Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:**

61788-32-7	Terphenyl, hydrogenated
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### 3 Composition and Information on Ingredients

**Chemical characterization: Mixture:**

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

**Dangerous components:**

26447-40-5	Methylenediphenyl diisocyanate, mixture of isomers Acute Tox. 1, H330 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 1, H372 Skin Irrit. 2, H315; Eye Irritation 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	30-<50%
101-68-8	Diphenylmethane-4,4'-di-isocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 1, H372 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irritation 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	30-<50%
61788-32-7	Terphenyl, hydrogenated vPvB	10-<20%
39310-05-9	Methylenebis(isocyanatobenzene) polymer Acute Tox. 1, H330 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 1, H372 Skin Irrit. 2, H315; Eye Irritation 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-<20%

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78-40-0	Triethyl phosphate	(Contd. of page 2)
	Acute Tox. 4, H302	1-<3%

**Additional information:**

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication 'List of Designated Hazardous Substances' or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication 'Approved Criteria for Classifying Hazardous Substances'.

### 4 First Aid Measures

**Description of first aid measures:**

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

**After inhalation:**

IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

**Advice for firefighters:**

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

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

### 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:** Send for recovery or disposal in suitable receptacles.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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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 container.

Use only outdoors or in a well-ventilated area.

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

**Conditions for safe storage, including any incompatibilities:**

### 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 and personal protection

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

**Control parameters:**

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

**26447-40-5 Methylenediphenyl diisocyanate, mixture of isomers**

WES (Australia)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen, as -NCO
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**101-68-8 Diphenylmethane-4,4'-di-isocyanate**

WES (Australia)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
PEL (USA)	Peak limitation: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Peak limitation: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm

**61788-32-7 Terphenyl, hydrogenated**

WEL (Great Britain)	Short-term value: 48 mg/m <sup>3</sup> , 5 ppm Long-term value: 19 mg/m <sup>3</sup> , 2 ppm
REL (USA)	Long-term value: 5 mg/m <sup>3</sup> , 0.5 ppm
TLV (USA)	Long-term value: 4.9 mg/m <sup>3</sup> , 0.5 ppm nonirradiated

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**78-40-0 Triethyl phosphate**

WEEL (USA)	Long-term value: 7.45 mg/m <sup>3</sup>
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**Ingredients with biological limit values:****101-68-8 Diphenylmethane-4,4'-di-isocyanate**

BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period of exposure Parameter: isocyanate-derived diamine
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**Additional information:** Based on the lists valid at the date of SDS creation.

**Exposure controls:**

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

**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:** Rubber gloves.

**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 and wash before reuse.

## 9 Physical and Chemical Properties

**Information on basic physical and chemical properties:****GENERAL INFORMATION****Appearance:**

<b>Form:</b>	Liquid.
<b>Colour:</b>	According to product specification.
<b>Odour:</b>	Characteristic.
<b>Odour threshold:</b>	Not determined.

<b>pH-value (~):</b>	Not determined.
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**Change in conditions:-**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	208 °C
<b>Flash point:</b>	212 °C

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<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature:</b>	520 °C
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>EXPLOSION LIMITS</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density at 20 °C:</b>	1 g/cm <sup>3</sup>
<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Solubility in/Miscibility with:-</b>	
<b>Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>VISCOSITY</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Molecular weight</b>	Not determined.
<b>Other information:</b>	No further relevant information available.

### 10 Stability and Reactivity

**Reactivity:**

Stable under normal conditions.

No further relevant information available.

**Chemical stability:**
**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

### 11 Toxicological Information

**Information on toxicological effects:**
**ACUTE TOXICITY**
**LD/LC50 values relevant for classification:**
**101-68-8 Diphenylmethane-4,4'-di-isocyanate**

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LC50, 4h	0.368 mg/l (rat)
	LC50, 1h	>2.24 mg/l (rat)

**Primary irritant effect**
**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation** Causes serious eye irritation.

**Inhalation:**

Harmful if inhaled.

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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.

**Respiratory or skin sensitisation**

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

Sensitisation possible through skin contact.

**Additional toxicological information:** Suspected of causing cancer.

**Other information :**

The product was classified according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

## 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:** Not known to be hazardous to water.

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:**

61788-32-7	Terphenyl, hydrogenated
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**Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

**Waste treatment methods:**

**Recommendation:**



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

Refer to State Land Waste Authority for disposal considerations.

**UNCLEANED PACKAGING**

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

## 14 Transport information

**UN-Number**

ADG, IMDG, IATA

Not Regulated

**UN proper shipping name**

ADG, IMDG, IATA

Not Regulated

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**Transport hazard class(es)**

ADG, ADN, IMDG, IATA  
Class

Not Regulated

**Packing group**

ADG, 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

**UN "Model Regulation":**

Not Regulated

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

See Section 2 for hazard identification.

**Australia: Priority Existing Chemicals**

None of the ingredients is listed.

**National regulations:****Other regulations, limitations and prohibitive regulations:** All ingredients are listed on AICS.**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.

**Relevant phrases:**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

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.

H372 Causes damage to organs through prolonged or repeated exposure.

**Department issuing SDS:**

EHS Department,  
Asia Pacific Region  
SCIP, Canlubang, Calamba City, Laguna  
Philippines 4028  
Tel: +63 (02) 8236-6820 to 24

**Other Information:**

In the previous MSDS, version control was by Issue Number and Date. With the change to automated MSDS creation software, version control is now based on printing and review dates which appear at the top of each page. Also consequent on this change, amendments have been made in all Sections of this MSDS. In future updates to MSDS, amended sections will be indicated by an asterisk (\*) in the left-hand margin.

**Contact:****The first date of preparation:** 21.10.2020

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**Number of revision times and the latest revision date:** 1.0 / 29.09.2022

**Sources:** Raw material suppliers' safety data sheets were used as key data sources in the preparation of this safety data sheet.

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