

## Safety Data Sheet

Printing date 03/25/2015

Version Number 1.0

Reviewed on 03/25/2015

**1 Identification****Product identifier**Trade name: *Bituthene Liquid Membrane Part A*

SDS ID Number: 60025

**Relevant identified uses of the substance or mixture and uses advised against**  
Specialty construction product. Not intended for other uses

**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

W.R. Grace & Co. -Conn.  
62 Whittemore Avenue  
Cambridge, MA 02140 USA

Grace Canada, Inc.  
294 Clements Road W.  
Ajax, Ontario L1S 3C6 Canada

**Information department:**

Environmental Health & Safety  
USA: +1-617-876-1400 (24 hours)  
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts  
CAN: 1-905-683-8561 (24 hours)

**Transport Emergency:** Chemtrec +1-800-424-9300 (24 hours)

**2 Composition/information on ingredients****Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with additional nonhazardous ingredients.

**Hazardous components:**

8052-42-4	Asphalt	20-25%
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	10-20%
	Polycyclic Aromatic Hydrocarbons	0.1-1.0%

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

**3 Hazard(s) identification****Classification of the substance or mixture**

May cause cancer.

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

**Hazard pictograms**

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Danger

**Hazard-determining components of labeling:**

Asphalt

Extracts (petroleum), heavy paraffinic distillate solvent

Polycyclic Aromatic Hydrocarbons

**Precautionary statements**

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

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF exposed or concerned: Get medical advice/attention.

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

**Additional information:** Avoid breathing dust.**Hazard description:** Harmful**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 1

**HMIS-ratings (scale 0 - 4)**

Health = \*2

Flammability = 1

Reactivity = 1

**Other hazards** Contact with residue from adhesive may cause eye and skin irritation.**4 First-aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:**

If symptoms develop, supply fresh air. If required, provide artificial respiration and seek immediate medical treatment.

**After skin contact:**

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

If residue remains, clean with waterless handcream or abrasive soap. Never use solvents.

**After eye contact:**

If contact with residue causes eye irritation, flush eyes with water for at least 15 minutes while holding eyelids open.

Rinse cautiously with water for several minutes.

**After swallowing:** Do not induce vomiting; immediately call for medical help.**5 Fire-fighting measures****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.**Special hazards arising from the substance or mixture** No further relevant information available.

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**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Do not allow product to reach sewage system or any water course.**Methods and material for containment and cleaning up:**

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Pick up mechanically.

Dispose contaminated material as waste according to section 13 of the SDS.

**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.

Avoid eye and skin contact with residue from adhesive.

To avoid skin contact, use gloves. Clean hands after contact with adhesive residue.

**Information about protection against explosions and fires:** Keep respiratory protective device available.**Storage:****Information about storage in one common storage facility:** Keep respiratory protective device available.**Further information about storage conditions:**

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**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Components with limit values that require monitoring at the workplace:**

69012-64-2 Silica, fume

TLV (USA) | TLV withdrawn

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**8052-42-4 Asphalt**

REL (USA)	Ceiling limit value: 5* mg/m <sup>3</sup> *15-min; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.5* mg/m <sup>3</sup> *inh. fraction; as benzene-soluble aerosol; BEIp

**Ingredients with biological limit values:****8052-42-4 Asphalt**

BEI (USA)	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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**Polycyclic Aromatic Hydrocarbons**

BEI (USA)	Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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**Additional information:** The lists that were valid during the creation were used as basis.

**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

**Breathing equipment:**

A chemical cartridge respirator with organic vapor cartridge is required. A dust/mist cartridge or prefilter may be needed in addition to control exposure to mist. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

Respiratory protection is not normally required. If exposures exceed PELs use a NIOSH approved organic vapor respirator.

**Protection of hands:**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Material of gloves**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Eye protection:**

Safety glasses with side shield protection.



A face shield should also be worn if there is potential exposure to splash or spray.

**Body protection:**

Use personal protective equipment as required.

Take off contaminated clothing and wash before reuse.

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**9 Physical and chemical properties****General Information****Appearance:**

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

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

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Flash point:</b>	200 °C (392 °F)

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

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>VOC Content (max):</b>	Not determined.

**Vapor pressure:** Not determined.

**Density: (~) at 20 °C (68 °F)** 1.1 g/cm<sup>3</sup> (9.18 lbs/gal)

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with**

<b>Water:</b>	Not miscible or difficult to mix.
	Not miscible or difficult to mix.

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

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Molecular weight** Not applicable.

**Other information**

No further relevant information available.

**10 Stability and reactivity**

**Thermal decomposition:** No decomposition if used according to specifications.

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

**Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Other potentially hazardous products may also be formed.

**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.

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**11 Toxicological information****Acute toxicity:****Primary irritant effect:**

on the skin: No irritant effect.

on the eye: No irritating effect.

**Additional toxicological information:** Carcinogenic.**Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**  
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

69012-64-2	Silica, fume	3
8052-42-4	Asphalt	2B
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	1
	Polycyclic Aromatic Hydrocarbons	2A

**NTP (National Toxicology Program)****K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information****Aquatic toxicity:****64742-04-7 Extracts (petroleum), heavy paraffinic distillate solvent**

LC/EC/IC50 (static) | 18.8 mg/l (algae) (OECD guideline 201)

**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**13 Disposal considerations****Waste treatment methods** Comply with Federal, State and local regulations.**Recommendation:**

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

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**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN-Number**

DOT, ADR, ADN, IMDG, IATA Not applicable.

**UN proper shipping name**

DOT, ADR, ADN, IMDG, IATA Not applicable.

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA

Class Not applicable.

**Packing group**

DOT, ADR, IMDG, IATA Not applicable.

**Environmental hazards:**

Marine pollutant: No

**Special precautions for user** Not applicable.**Transport/Additional information:****DOT**

Remarks: Not Regulated.

**UN "Model Regulation":** -**15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

None of the ingredients is listed.

**SARA Section 312/Tier I & II Hazard Categories:**

Health Immediate (acute)	Yes
Health Delayed (chronic)	Yes
Flammable	No
Reactive	No
Pressure	No

**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**CEPA (Canadian DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**Right to Know Ingredient Disclosure**

69012-64-2	Silica, fume
69102-90-5	1,3-Butadiene, homopolymer, hydroxy-terminated
25791-96-2	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.', .alpha."-1,2,3-propanetriyltris[.omega.-hydroxy-

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8001-78-3	Castor oil, hydrogenated
1332-58-7	Natural aluminosilicate (Kaolin)

**California Proposition 65****Chemicals known to cause cancer:**

Extracts (petroleum), heavy paraffinic distillate solvent
Polycyclic Aromatic Hydrocarbons
Quartz (SiO <sub>2</sub> )
4-vinylcyclohexene
1,3-Butadiene

**Chemicals known to cause reproductive toxicity for females:**

100-40-3	4-vinylcyclohexene
106-99-0	1,3-Butadiene

**Chemicals known to cause reproductive toxicity for males:**

106-99-0	1,3-Butadiene
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**Chemicals known to cause developmental toxicity:**

106-99-0	1,3-Butadiene
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**Carcinogenicity Categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)  
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

Asphalt	A4
Natural aluminosilicate (Kaolin)	A4

**NIOSH-Cancer (National Institute for Occupational Safety and Health)**

8052-42-4	Asphalt
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**Volatile Organic Compounds (VOC) reported per the Emission Standards.** (gr/L) 10 gr/L (as applied)**Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.  
Exceptions can be made by the authorities in certain cases.

**16 Other information**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

**Department issuing SDS:****Other Information:**

There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore preventing the onset of silicosis will also reduce the cancer risk.

**Date of preparation / last revision** 03/25/2015 / -**The first date of preparation** 03/03/2015**Number of revision times and the latest revision date** 1.0 / 03/25/2015

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