

Material Safety Data Sheet

Printing date 02/27/2014

Version Number 1.5

Reviewed on 02/27/2014

1 Identification of the substance/mixture and of the company/undertaking**Product identifier**Trade name: Waterproofing Membrane

MSDS ID Number: M-85937

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

Other Country Contact Information:

For products distributed beyond the country Manufacturer/Supplier identified above
Consult Section 16 for additional emergency contact information.

Information department:

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

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 nonhazardous additions.**Hazardous components:**

8052-42-4	Asphalt	50-100%
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	20-25%

3 Hazards identification**Information concerning hazards for human and environment:**

May cause cancer.

Safety phrases:

Avoid exposure - obtain special instructions before use.

When using do not eat or drink.

Wear suitable protective clothing.

In case of accident or if you feel unwell, seek medical advice immediately.

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See Section 13 for disposal information.

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Hazard description: Harmful**Eye Contact:** Causes eye irritation.**Skin Contact:**

Causes skin irritation.

Skin absorption of residue from adhesive may be harmful and may produce local skin tumors.

Skin Absorption: Harmful if absorbed through the skin.**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

HMS-ratings (scale 0 - 4)

Health = *2

Flammability = 1

Reactivity = 0

Other hazards Contact with residue from adhesive may cause eye and skin irritation.**4 First aid measures****After inhalation:**

Adverse effects are not likely. If symptoms develop, get fresh air. If symptoms persist, consult a physician. If breathing has stopped, give artificial respiration then oxygen if needed.

After skin contact:

If skin irritation continues, consult a doctor.

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.

Seek immediate medical advice.

After swallowing: Due to physical nature of this product, ingestion is not likely.**5 Firefighting measures****Suitable extinguishing agents:**CO₂, 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.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.USA
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6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Pick up mechanically.

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

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**

Membrane is slippery when wet or covered with frost.

Avoid eye and skin contact with residue from adhesive.

Release liners are slippery. Remove from work area immediately after membrane application.

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

Release liners may cause slip and trip hazards.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

Information about protection against explosions and fires:

Removal of release liner may generate a static electrical discharge (spark).

Storage:

Further information about storage conditions:

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:

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

Additional information: The lists that were valid during the creation were used as basis.

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Personal protective equipment:**General protective and hygienic measures:** Avoid contact with the eyes and skin.**Breathing equipment:**

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 impermeable and resistant to the product. Selection of material should be considered before use.

Eye protection: Not required.**Body protection:** Protective work clothing**9 Physical and chemical properties****General Information****Appearance:**

Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odour threshold:	Not determined.

pH-value: Not applicable.**Change in condition****Melting point/Melting range:** Undetermined.**Flash point:** Not applicable.**Flammability (solid, gaseous):** Not determined.**Decomposition temperature:** Not determined.**Auto igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure: Not applicable.**Density at 20°C (68 °F):** ~1.1 LBS/CF**Vapour density** Not applicable.**Evaporation rate** Not applicable.**Solubility in / Miscibility with****Water:** Insoluble.

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Segregation coefficient (n-octanol/water): Not determined.**Viscosity:****Dynamic:** Not applicable.**Kinematic:** 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

Hydrogen sulfide

Additional information: See section 7 for information on handling, storage and conditions to be avoided.* **11 Toxicological information****Additional toxicological information:** Carcinogenic.* **12 Ecological information****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Additional ecological information:****General notes:** Slightly hazardous for water* **13 Disposal considerations****Waste treatment methods** Comply with Federal, State and local regulations.

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Recommendation:

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

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 in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

DOT

Remarks:

Not Regulated.

ADR

Remarks:

Not Regulated.

ADN

Remarks:

Not regulated

IATA

Remarks:

Not Regulated.

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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 Delayed (chronic)	Yes
Health Immediate (acute)	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.

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

64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent
130498-29-2	Polycyclic Aromatic Hydrocarbons

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

WHMIS Classification(s):

D2A - Very toxic material causing other toxic effects

**Carcinogenicity Categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

8052-42-4	Asphalt	3
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	1
9003-55-8	Styrene-butadiene rubber	3

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14807-96-6 Talc

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

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**

8052-42-4 Asphalt

A4

14807-96-6 Talc

A4

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

8052-42-4 Asphalt

OSHA-Cancer (Occupational Safety & Health Administration)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards for Architectural Coatings:

If no g/L value is provided this product is not subject to above standard.

International Chemical Inventory Status**European EINECS**

All ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances PICCS

All ingredients are listed.

Inventory of Existing Chemical Substances manufactured or imported in China IECSC

All ingredients are listed.

Australian Inventory of Chemical Substances AICS

All ingredients are listed.

Japan Existing and New Chemical Substance List ENCS

All ingredients are listed.

Korean Existing Chemical Inventory

All ingredients are listed.

National regulations:**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.

Non-hazardous Ingredients

9003-55-8 Styrene-butadiene rubber

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."

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Department issuing MSDS:**Other Information:**

BITUTHENE® LOW TEMPERATURE WATERPROOFING MEMBRANE, MEMBRANE STRIPS
BITUTHENE® SYSTEM 4000 WATERPROOFING MEMBRANE, MEMBRANE STRIPS
PERM-A-BARRIER WALL FLASHING, PERM-A-BARRIER WALL MEMBRANE,
PERM-A-BARRIER® LOW TEMPERATURE MEMBRANE, PERM-A-BARRIER
DETAIL MEMBRANE, GRACE ICE & WATER SHIELD®,
GRACE ROOF DETAIL MEMBRANE, PITTWRAP CW, GRACE SELECT, VYCOR V40 WEATHER
BARRIER STRIPS, GRACE VYCOR PLUS TAPES, GRACE® BASIK™, GRACE VYCOR DECK
PROTECTOR, BITUTHENE 3000 MEMBRANE, ICE and WATER SHIELD HT
GRACE VYCOR ALL PURPOSE FLASHING, GRACE VYCOR ALUMINUM FLASHING,
PREPRUFE DETAIL TAPE HC GRADE, GENERIC 40-MIL FLASHING LOG, PERM-A-BARRIER ALUMINUM
FLASHING,
PERM-A-BARRIER ALUMINUM MEMBRANE, PERM-A-BARRIER ALUMINUM MEMBRANE LOWTEMP,

USA