

Material Safety Data Sheet

Printing date 02/06/2013

Version Number 1.2

Reviewed on 02/06/2013

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

MSDS ID Number: M-85912

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 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 nonhazardous additions.

Hazardous components:

8052-42-4	Asphalt	25-30%
64742-95-6	Solvent naphtha (petroleum), light aromatic	10-20%
95-63-6	1,2,4-trimethylbenzene	10-20%
98-82-8	Isopropylbenzene	0.1-1.0%
1330-20-7	Xylene	0.1-1.0%

3 Hazards identification**Classification of the substance or mixture**

Has a narcotizing effect.

The product has to be labeled in accordance with applicable regulations.

Information concerning hazards for human and environment:

May produce local skin tumors

Irritating to respiratory system.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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Vapors may cause drowsiness and dizziness

Safety phrases:

Do not breathe gas/fumes/vapor/spray.

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

Use appropriate container to avoid environmental contamination.

See Section 13 for disposal information.

Keep away from sources of ignition - No smoking.

Hazard description:

Combustible

Caution!

Inhalation:

Vapors concentrations in poorly ventilated areas can cause a burning sensation, shortness of breath, headache, nausea, coughing and wheezing. Prolonged or repeated overexposure may result in fluid in the lungs, chemical pneumonia and serious damage to lung tissue and respiratory tract. Absorption through the lungs may cause symptoms similar to those identified under ingestion.

Causes respiratory tract irritation.

Eye Contact: Causes eye irritation.

Skin Contact:

May produce local skin tumors.

May be irritating to the skin on prolonged contact

Skin Absorption: Harmful if absorbed through the skin.

Ingestion:

Chemicals contained in this product can affect the skin, heart, brain, liver, kidneys, lungs and spleen. This material may be harmful or fatal if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis.

NFPA ratings (scale 0 - 4)

Health = 2

Fire = 2

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2

Flammability = 2

Reactivity = 0

4 First aid measures**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.

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After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

After swallowing: Do not induce vomiting; immediately call for medical help.**5 Firefighting measures****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.**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:

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

Sweep up spilled product into receptacles.

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**

Open and handle receptacle with care.

Avoid contact with eyes, skin and clothing.

Do not take internally. Practice good personal hygiene to avoid ingestion. Use only with adequate ventilation. Wash clothing before reuse. Do not apply where odors may penetrate living areas. To avoid skin contact, use gloves or barrier creams. Wear work clothes with long sleeves if skin contact is possible. Promptly cleanse hands with waterless hand cleaner, clean fingernails and wash with soap and water after handling. Do not use solvents to clean skin. **FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.**

Flammable mixtures with air can be formed in emptied containers. Do not puncture, cut, drill, heat or weld uncleaned drums.

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Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Empty containers may retain hazardous residue, both liquid and vapor.

Storage:**Further information about storage conditions:** Keep receptacle tightly sealed.**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:****8052-42-4 Asphalt**

REL	Short-term value: C 5* mg/m ³ *15-min; See Pocket Guide App. A
TLV	0.5* mg/m ³ *inh. fraction; as benzene-soluble aerosol; BEIp

95-63-6 1,2,4-trimethylbenzene

REL	125 mg/m ³ , 25 ppm
TLV	123 mg/m ³ , 25 ppm

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

BEI	- 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:** 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.

In case of brief exposure or low pollution use respiratory filter device.

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.

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Eye protection:

Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.



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

Body protection: Protective work clothing**9 Physical and chemical properties****General Information****Appearance:**

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

pH-value (~): Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Flash point:	41 °C (106 °F)

Flammability (solid, gaseous): Not applicable.

Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	In use, may form flammable/explosive vapor-air mixture.

Explosion limits:

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

Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.3 g/cm ³ (10.849 lbs/gal)
Vapour density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

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

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Viscosity:**Dynamic:** Not determined.**Kinematic:** Not determined.**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.**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:****95-63-6 1,2,4-trimethylbenzene**

Dermal	LD50	3160 mg/kg (rabbit)
		>3500 mg/kg (rat)
Inhalative	LC50/4 h	18 mg/l (rat)

Primary irritant effect:**on the skin:** May be irritating to the skin on prolonged contact**inhalation:** Irritating to respiratory system.**Ingestion:** Harmful if swallowed.**Additional toxicological information:****Additional Toxicological Information:**

Has a narcotizing effect.

Chemicals contained in this product can affect the skin, heart, brain, liver, kidneys, lungs and spleen. Over exposure by inhalation may be fatal due to pulmonary edema (fluid in lungs). This material may be harmful or fatal if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis. Some harmful effects are also possible through skin absorption.

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
9003-55-8	Styrene-butadiene rubber	3

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1330-20-7 | Xylene

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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.

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.**Ecotoxicological effects:****Remark:** Toxic for fish**Additional ecological information:****General notes:**

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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.

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN proper shipping name**
DOT

Material not regulated (ground or rail)

Special precautions for user

Not applicable.

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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:**DOT****Remarks:**

Note: this transportation classification is for over the road shipments. Shipments by other modes need to be evaluated.

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):

95-63-6	1,2,4-trimethylbenzene	12,9%
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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:**

98-82-8	Isopropylbenzene
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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.

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

98-82-8	Isopropylbenzene	CBD
1330-20-7	Xylene	I

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

Natural aluminosilicate (Kaolin)	A4
Asphalt	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: 244 g/L**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

Inventory listing could not be confirmed for one or more substances.

Korean Existing Chemical Inventory

All ingredients are listed.

Non-hazardous Ingredients

1332-58-7	Natural aluminosilicate (Kaolin)
9003-55-8	Styrene-butadiene rubber
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic
112945-52-5	Amorphous Silica Dioxide

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."

The first date of preparation 02/06/2013**Number of revision times and the latest revision date** 1.2 / 02/06/2013

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