



Monolithic Membrane 6125®

Safety Data Sheet

Date of issue: 11/01/2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : Monolithic Membrane 6125® (MM6125®)

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Hot-applied, rubberized asphalt membrane for waterproofing, roofs, terraces, foundation walls, parking decks and bridges.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Hydrotech Membrane Corporation
10951 Parkway
H1J 1S1 Anjou (Québec) - Canada
T 1-514-353-6000

info@hydrotechmembrane.ca - www.hydrotechmembrane.ca

1.4. Emergency telephone number

Emergency number : CANUTEC (Canada 24 hours): 1-888-CAN-UTEC (226-8832) or (613) 996-6666
CHEMTREC (USA 24 hours) : 1-800-424-9300
POISON CONTROL CENTER (QC 24 hours): 1-800-463-5060

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

No labeling applicable

2.3. Other hazards

Other hazards which do not result in classification : The product is solid at room temperature and becomes liquid when treated for the application. If heated at high temperatures, it can release vapors and/or hydrogen sulfide.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	
Asphalt	(CAS No) 8052-42-4 (EC no) 232-490-9	40 - 70	
Lubricating oils, petroleum, hydrotreated spent	(CAS No) 64742-58-1 (EC no) 265-161-3	15 - 40	
Styrene-butadiene copolymer	(CAS No) 9003-55-8 (EC no) 618-370-2	7 - 13	
1,3-Butadiene, 2-methyl-, homopolymer	(CAS No) 9003-31-0 (EC no) 618-362-9	3 - 12	
Carbon black	(CAS No) 1333-86-4 (EC no) 215-609-9	1 - 7	

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Name	Product identifier	%	
Distillates, petroleum, solvent-refined heavy paraffinic	(CAS No) 64741-88-4 (EC no) 265-090-8	< 2	

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. Seek medical attention if ill effect or irritation develops.
First-aid measures after skin contact	: In case of contact with hot or molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.
First-aid measures after eye contact	: In case of contact with hot material: Rinse immediately with plenty of water. Seek medical attention immediately.
First-aid measures after ingestion	: Seek medical attention immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTRE or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: At elevated temperatures, product mist or vapours may irritate the mucous membranes of the nose, the throat, bronchi, and lungs. Dizziness, headaches, nausea, unconsciousness. May release poisonous hydrogen sulphide gas.
Symptoms/injuries after skin contact	: At elevated temperatures, the hot liquid may cause severe skin burns. Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/injuries after eye contact	: At elevated temperatures, hot material can cause burns. Vapour irritates eyes.
Symptoms/injuries after ingestion	: At elevated temperatures, severe irritation or burns to the mouth, throat, oesophagus, and stomach.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Carbon oxides. Nitrogen oxides. Sulphur oxides. Toxic fumes may be released.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. May release poisonous hydrogen sulphide gas.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip clean-up crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Dispose of this material and its container to hazardous or special waste collection point.
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6.4. Reference to other sections

Refer to sections 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. The inherent toxic and olfactory (sense of smell) fatiguing properties of hydrogen sulphide require that air monitoring alarms be used if concentrations are expected to reach harmful levels such as in enclosed spaces, heated transport vessels and spill or leak situations. If the air concentration exceeds 50 ppm, the area should be evacuated unless respiratory protection is in use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container closed when not in use.

Incompatible materials : Strong bases. Pure oxygen. Chlorine. Strong acids. Strong oxidizers.

7.3. Specific end use(s)

Refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Asphalt (8052-42-4)		
USA - ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (fume, inhalable fraction)
USA - ACGIH	Biological Exposure Indices (BEI)	(Medium: urine - Time: end of shift at end of workweek - Parameter: 1-Hydroxypyrene with hydrolysis (non-quantitative))
USA - NIOSH	NIOSH REL (ceiling) (mg/m ³)	5 mg/m ³ (fume)

Carbon black (1333-86-4)		
USA - ACGIH	Local name	Carbon black
USA - ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³
USA - ACGIH	Remark (ACGIH)	Bronchitis
USA - IDLH	US IDLH (mg/m ³)	1750 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA - OSHA	Local name	Carbon black
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	3.5 mg/m ³

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. When the product is used outdoors, stay well away from building air intakes or close and seal the intake to prevent product from entering building.

Personal protective equipment : Avoid all unnecessary exposure. For certain operations, additional Personal Protection Equipment (PPE) may be required. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective goggles. Protective clothing. Gloves and respiratory protection.



Hand protection : Impervious gloves e.g. PVC, nitrile rubber, butyl rubber. Chemical resistant PVC gloves (to European standard EN 374 or equivalent).

Eye protection : In case of splash hazard: chemical goggles or safety glasses. Wear approved safety goggles. Chemical goggles should be consistent with EN166 or equivalent.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In fine dispersion/spraying/misting: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection : Eliminate all sources of ignition, avoid sparks, flames and do not smoke in risk area. When handling molten material, thermally-protective long sleeved clothing, boots and gloves should be worn. Face shield and eye protection.

Other information : Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid at 205 °C (application temperature) Semi-solid at 25 °C
Colour	: black.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 240 °C
Auto-ignition temperature	: 400 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.15 kg/l
Solubility	: Water: 50 ppm
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 0% g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None known under normal conditions of use.

10.4. Conditions to avoid

Excessive heat.

10.5. Incompatible materials

Strong bases. Strong acids. Pure oxygen. Chlorine. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides and sulphur oxides. Toxic fumes may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Asphalt (8052-42-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l/4h

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Carbon black (1333-86-4)

LD50 oral rat	> 15400 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: At application temperature, inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness. Suspected of causing cancer. The hot liquid may cause skin burns and vapors may irritate to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May be toxic to aquatic life.

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Silicon dioxide (7631-86-9)

LC50 fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
ErC50 (algae)	440 mg/l Pseudokirchneriella subcapitata

Carbon Black (1333-86-4)

ErC50 (algae)	> 10000 mg/l 72 hours OECD 201
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12.2. Persistence and degradability

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Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Asphalt (8052-42-4)

BCF fish 1	(no bioaccumulation expected)
Log Pow	> 6

Silicon dioxide (7631-86-9)

BCF fish 1	(no bioaccumulation expected)
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not regulated

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UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not regulated
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IMDG

Transport hazard class(es) (IMDG)	: Not regulated
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IATA

Transport hazard class(es) (IATA)	: Not regulated
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ADN

Transport hazard class(es) (ADN)	: Not regulated
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RID

Transport hazard class(es) (RID)	: Not regulated
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14.4. Packing group

Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content : 0% g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H350	May cause cancer
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product