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

1.1. Product identifier
Product form: Mixture
Trade name: Monolithic Membrane 6125®

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-UTECH (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

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>(CAS No) 8052-42-4</td>
<td>40 - 70</td>
</tr>
<tr>
<td>(EC no) 232-490-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricating oils, petrolum, hydro treated</td>
<td>(CAS No) 64742-58-1</td>
<td>15 - 40</td>
</tr>
<tr>
<td>spent</td>
<td>(EC no) 265-161-3</td>
<td></td>
</tr>
<tr>
<td>Styrene-butadiene copolymer</td>
<td>(CAS No) 9003-55-8</td>
<td>7 - 13</td>
</tr>
<tr>
<td></td>
<td>(EC no) 618-370-2</td>
<td></td>
</tr>
<tr>
<td>1,3-Butadiene, 2-methyl-, homopolymer</td>
<td>(CAS No) 9003-31-0</td>
<td>3 - 12</td>
</tr>
<tr>
<td></td>
<td>(EC no) 618-362-9</td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>(CAS No) 1333-86-4</td>
<td>1 - 7</td>
</tr>
<tr>
<td></td>
<td>(EC no) 215-609-9</td>
<td></td>
</tr>
</tbody>
</table>
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 any thing 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


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.

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.

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.

6.4. Reference to other sections

Refer to sections 8 and 13.
Monolithic Membrane 6125®
Safety Data Sheet

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.

7.3. Specific end use(s)
Refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Material</th>
<th>USA - ACGIH</th>
<th>USA - ACGIH</th>
<th>USA - NIOSH</th>
<th>USA - NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt (8052-42-4)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>Biological Exposure Indices (BEI)</td>
<td>NIOSH REL (ceiling) (mg/m³)</td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>0.5 mg/m³ (fume, inhalable fraction)</td>
<td>(Medium: urine - Time: end of shift at end of workweek - Parameter: 1-Hydroxypyrene with hydrolysis (non-quantitative))</td>
<td>5 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>Biological Exposure Indices (BEI)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - NIOSH</td>
<td>bronchitis</td>
<td>3.5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>Bronchitis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - NIOSH</td>
<td>US IDLH (mg/m³)</td>
<td>US IDLH (mg/m³)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - NIOSH</td>
<td>1750 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
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<td></td>
</tr>
<tr>
<td>USA - OSHA</td>
<td>carbon black</td>
<td>3.5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>Local name</td>
<td>Carbon black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - OSHA</td>
<td>Local name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA - OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
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<td></td>
</tr>
</tbody>
</table>

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 goggels 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.
**SECTION 9: Physical and chemical properties**

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

**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**

**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**

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified</th>
</tr>
</thead>
</table>

**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
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

12.2. **Persistence and degradability**

**Monolithic Membrane 6125®**

Persistence and degradability: Not established.

12.3. **Bioaccumulative potential**

**Monolithic Membrane 6125®**

Bioaccumulative potential: Not established.

**Asphalt (8052-42-4)**

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

**Silicon dioxide (7631-86-9)**

- BCF fish 1: (no bioaccumulation expected)

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
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

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

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

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

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

**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
### SECTION 15: Regulatory information

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC content</td>
<td>0% g/l</td>
</tr>
</tbody>
</table>

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

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

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.