



Safety Data Sheet

Revision date : 2015.05.20

Product name : **MM6125 EV Membrane**

1- Identification of the substance / mixture and of the company / enterprise

- Product Identifier
- Product name : **MM6125 Membrane**
- Product Code: **None**
- Application of the substance / preparation: **Waterproofing membrane for roofing, decking, foundation wall, parking lots, bridges.**

Details of the supplier.

- Manufacturer / Supplier
- **Hydrotech Membranes Corporation**
10951 Parkway, Anjou (Québec) H1J 1S1
1-514-353-6000, 1-800-361-8924
1-514-354-6649
info@hydrotechmembrane.ca
www.hydrotechmembrane.ca

2- Hazards Identification

Primary entry

Inhalation

In closed area - Produce irritating vapors for the eyes and throat. Causes headache, nausea and dizziness.

Eye Hazards

The hot material causes severe burns. Vapors are irritating to the eyes.

Skin Hazards

The hot material causes severe burns. Prolonged exposure to vapors could cause dermatitis..

Hazards associated with the ingestion

May be harmful if swallowed. May cause gastric distress, vomiting and diarrhea.



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3- Hazards Identification

INGREDIENTS	C.A.S #	EINECS #	% (W/W)	OSHA PEL		ACGIH TLV		NIOSH REL	
				TWA	STEL	TWA	STEL	TWA	STEL
ASPHALT	8052-42-4	232-490-9	40 to 70 %	0.5 mg/m ³	N.E.	0.5 mg/m ³	P.E.	5 mg/m ³	N.E.
RECYCLED OIL S ¹ Lubricating oils (petrolieum), hydrotreated spent	64742-58-1	265-161-3	15 to 40 %	5 mg/m ³	N.E.	5 mg/m ³	10 mg/m ³	N.E.	N.E.
Residual oils (petrolieum), solvent refined	64742-01-4	265-101-6							
Residual oils (petrolieum), hydrotreated	64742-57-0	265-160-8							
Residual oils (petrolieum), solvent dewaxed	64742-62-7	265-166-0							
Lubricating oils (petrolieum), C>25, hydrotreated	72623-83-7	276-735-8							
Petrolieum distillates, solvent- refined heavy paraffinic	64741-88-4	265-090-8							
SBS POLYMER (Styrene- Butadiene-Styrene) ¹	9003-55-8	N.A.	7 to 13 %	N.E.	N.E.	P.E.	N.E.	N.E.	N.E.
FILLERS ¹ Kaolin Cristalline Silice- Quartz Cristobalite Mica Bioxyde Titanique	1332-58-7 14808-60-7 14464-46-1 12001-26-2 13463-67-7	310-194-1 238-878-4 238-455-4 N.A. 236-675-5	10 to 30 %	15 mg/m ³	N.E.	10 mg/m ³	N.E.	N.E.	N.E.

NOTES

PEL: permissible exposure limit

REL: recommended exposure limit

TLV: threshold limit value

N.E.: not established

N.A.: not available

N. App: not applicable

TWA: 8 hours, time weighted average

STEL: short-term exposure limit (15 min. average)

ppm: parts per million in air

mg/m³: milligrams per cubic meter of air

- The exposure to the product above the limits of exposure is not likely to occur considering its form (incorporated in the mixture) and the provided use. The limit of exposure is given for reference only.

Critical features

This product is solid at room temperature and becomes liquid when heated for the application. If heated at high temperatures, it can release vapors and / or hydrogen sulfide. Inhalation of vapors can cause irritation of the eyes and respiratory system and a central nervous system depression with symptoms of nausea, headache, vomiting, dizziness, fatigue, dizziness, reduced coordination, unconsciousness and eventually death. Hot asphalt causes burns to skin and eyes. At higher concentrations (above 10 ppm), hydrogen sulfide is extremely toxic if inhaled and may cause respiratory irritation, respiratory failure, coma and death.

Appearance / Odor: Black asphaltic solid product, no odor. The heated liquid has a characteristic odor.



Safety Data Sheet

Revision date : 2015.05.20

Product name : **MM6125 EV Membrane**

4- First aid

Specific first aid measures:

Peau: Do not remove hot membrane from skin. Flush with cold water - Obtain medical attention without delay.

Yeux: Do not remove hot membrane. Flush with cold-water -Obtain medical attention without delay.

Inhalation: If in a closed area – remove victim from site and bring to a well-ventilated area.

Ingestion: Get medical care immediately. Do not induce vomiting. Never ingest anything to an unconscious victim. Call a doctor or Poison Control center.

Effects of exposure to the product: At 25°C :
None known.

At 205°C :

Inhalation: In an enclosed space - Emits irritating vapors for the eyes and throat. Cause of headaches, nausea and dizziness.

Skin: Hot material causes severe burns. Prolonged exposure to vapors may cause dermatitis.

Eyes: The hot material causes severe burns. Vapors are irritating to eyes.

Ingestion: Improbable.

Exposure Limit: 8hrs max 5mg / m3 (asphalt) Consult local authorities for acceptable values in the province.

Ref : Toxicological Directory CSST.



Safety Data Sheet

Revision date : 2015.05.20

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5- Measures in case of fire

Extinguishing media: **C02 extinguisher, dry chemicals, foam. Use of water spray directly on the material may spread the fire and cause frothing.**

Flash point and method: **240°C (464°F) METHOD - COC**

Flammable (% by volume): **Not available**

Auto-ignition temperature (°C): **400°C +**

Dangerous combustion products: **COx, SOX, NOx, sulfur compounds, smoke.**

Sensitivity to a static discharge: **None**

Sensitivity to mechanical shock: **None**

6- Measures in case of accidental spills

Procedures in case of leaks and spills:

Contain and / or absorb spill with inert materials (p. Ex. Sand, vermiculite). Collect and dispose in accordance with regulations. Avoid runoff to waterways and sewers.

7- Handling and Storage

Storage Requirements:

Containers must be kept tightly closed. Store in a cool, dry, well-ventilated. Use only with adequate ventilation. Do not store near strong oxidizers.



Safety Data Sheet

Revision date : 2015.05.20

Product name : **MM6125 EV Membrane**

8- Exposure controls / personal protection

Engineering controls

Use with adequate general ventilation unit and local exhaust. When the product is used outdoors, stay well away from building air intakes or close and seal the intakes to prevent product from entering building.

Eye and face protection

It is recommended to wear protective glasses when handling the molten product.

Skin protection

Use loose work gloves style 'cuff'. Wear protective clothing such as overalls, long sleeve shirts and pants.

Respiratory protection

The level of respiratory protection needed should be assessed according to chemical exposures by a health care professional or safety.

The exposure limits in the workplace for individual ingredients (if available) are listed below.

Ingredient (s) - Exposure Limits

bitumen, petroleum (residues)

OSHA PEL-TWA 5mg/m³

ACGIH TLV-TWA 0,5 mg/m³ (aérosol soluble dans le benzène)

silica, quartz

ACGIH TLV-TWA 0,025 mg/m³

OSHA PEL-TWA 30 mg/m³/(%SiO₂+2) (total dust)

OSHA PEL-TWA 10 mg/m³/(%SiO₂+2) (respirable dust)

9- Physical and chemical properties

Physical condition: **Semi-solid at 25 ° C - No specific odor. Color black.**

Liquid at 205 ° C (application temperature) bitumen smell - black color.

Vapor Pressure: **None**

Vapor Density (air=1): **Not applicable**

Density: **1.15 kg/L**

Evaporation rate: **Not applicable**

Coefficient of water / oil: **Not applicable**

Boiling point (°C): **not available**

Solubility in water (20°C): **50 ppm water deionize**

Volatiles %: (V.O.C.) g/L : **0% : 0 g/L**

pH : **not available**

Melting point, freezing point: **not available**



Safety Data Sheet

Revision date : 2015.05.20

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Flash point: **240°C (464°F) METHOD - COC**

Flammability (solid, gas) : **not available**

Auto-ignition point (°C): **400°C +**

Decomposition Temperature: **not available**

Viscosity : **not available**

10- Stability and reactivity

Conditions of reactivity: **Conditions to avoid - Excessive heat approaching flash point.**

Chemical stability: **Stable**

Conditions to avoid: **Excessive heat approaching flash point.**

Incompatibility with other products: **Incompatible with strong oxidizers, chlorine, oxygen, acid and very strong bases.**

Hazardous decomposition products: **During combustion , emissions COx, SOx, NOx, sulfur, smoke.**

11- Toxicological data

Chronic / carcinogenic effects

It has been established that the presence of silica, quartz in this product at concentrations equal to or greater than 0.1% is carcinogenic as follows: IARC: Group 1; NTP: on the list; OSHA: Not regulated; ACGIH: A2.

Miscellaneous Toxicological Information

Overall, toxicity tests have not been conducted for this product. Available toxicological data for individual ingredients are summarized below.

Ingredient (s) - Carcinogenicity

silica, quartz

NTP - on the list

On the list of the IARC Monographs

heavy paraffinic distillates (petroleum), solvent-dewaxed

On the list of the IARC Monographs

Ingredient (s) - Toxicological Data

silica, quartz

LD50 (iv, rat): 500 mg / kg bw / Quartz (10-200 microns)

heavy paraffinic distillates (petroleum), solvent-dewaxed

LD50 (oral, rat):> 5000 mg / kg

LD50 (dermal, rabbit):> 5000 mg / kg



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12- Ecological Information

No information was identified.

13- Data on product disposal

Dispose in accordance with local government regulations, provincial and federal regulations.

14- Information relating to transport

Road Not Regulated
IMDG Not regulated
IATA Not regulated

15- Information on regulations

US Regulatory Information

It may be that the bitumen contains chemicals detectable amounts recognized by the State of California to cause cancer or reproductive harm.

Ingredient (s) - Information on regulations by State (United States)

asphalt, petroleum (residues)

California - Proposition 65

Pennsylvania - Risk in the workplace

silica, quartz

New Jersey - Risk in the workplace

Pennsylvania - Risk in the workplace

California - Proposition 65

Massachusetts - Hazardous Substance

Distillates (petroleum), solvent-dewaxed

New Jersey - Risk in the workplace

Pennsylvania - Risk in the workplace

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

Canadian Regulatory Information

This product has been classified in accordance with hazard criteria of the CPR. This MSDS contains all the information required by the CPR. WHMIS Classification: Class D2A - Very toxic.

Ingredient (s) - Canadian Regulatory Information

silica, quartz

WHMIS - Ingredient Disclosure List

WHMIS - Canada (Pictograms)

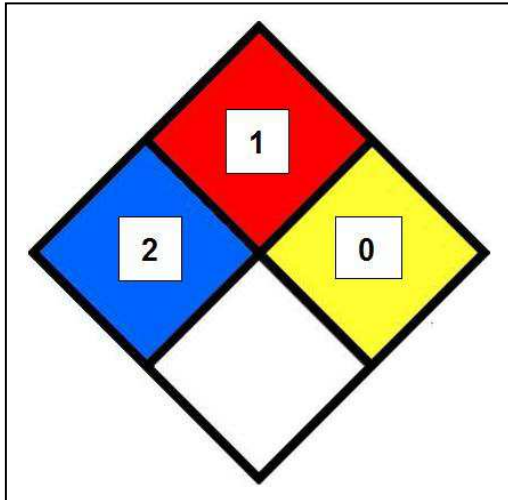


Revision date : 2015.05.20

Product name : **MM6125 EV Membrane**

15- Information on regulations (continued)

NFPA



SIMD

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
INDIVIDUAL PROTECTION	

16- Other information including information regarding the preparation and updating of the SDS

Revision / Info

This MSDS replaces the previous MSDS dated 2014.04.03.

NOTE

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