

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade name : MBR® Cold Application Adhesive

Manufacturer or supplier's details

Company : Johns Manville  
Address : P.O. Box 5108  
Denver, CO USA 80127  
Telephone : +1 303-978-2000 8:00 a.m.-5:00 p.m. M-F  
Emergency telephone : 1-800-424-9300 (Chemtrec, in English)  
number

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives and/or sealants

Prepared by : productsafety@jm.com

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids : Category 3  
Acute toxicity (Inhalation) : Category 4  
Skin corrosion/irritation : Category 2  
Eye irritation : Category 2B  
Specific target organ toxicity : Category 3 (Central nervous system)  
- single exposure  
Specific target organ toxicity : Category 2  
- repeated exposure

**GHS label elements**

Hazard pictograms



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H320 Causes eye irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements : **Prevention:**

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/  
equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P370 + P378 In case of fire: Use dry sand, dry chemical or  
alcohol-resistant foam to extinguish.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep  
at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water  
for several minutes. Remove contact lenses, if present and easy  
to do. Continue rinsing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately  
all contaminated clothing. Rinse skin with water/shower.  
P312 Call a POISON CENTER or doctor/ physician if you feel  
unwell.  
P337 + P313 If eye irritation persists: Get medical advice/  
attention.  
P332 + P313 If skin irritation occurs: Get medical advice/  
attention.  
P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.  
P233 Keep container tightly closed.  
P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to an approved facility in  
accordance with local, regional, national and international  
regulations.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

Chemical name	CAS-No.	Concentration (%)
asphalt	8052-42-4	>= 40 - <= 60
Stoddard solvent	8052-41-3	>= 5 - <= 15
quartz (SiO <sub>2</sub> )	14808-60-7	>= 0 - < 5

**SECTION 4. FIRST AID MEASURES**

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	: Remove person to fresh air. If signs/symptoms continue, get medical attention. If breathing has stopped, apply artificial respiration.
In case of skin contact	: Take off contaminated clothing and shoes immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: None known.
Notes to physician	: In case of shortness of breath, give oxygen. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical Water mist
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: May release toxic, irritating and/or corrosive gases. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon oxides Sulfur oxides
Further information	: Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

Special protective equipment : Wear self-contained breathing apparatus for firefighting if  
for firefighters necessary.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, : Use personal protective equipment.  
protective equipment and : Ensure adequate ventilation.  
emergency procedures : Remove all sources of ignition.  
: Evacuate personnel to safe areas.  
: Beware of vapours accumulating to form explosive  
concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.  
: Prevent further leakage or spillage if safe to do so.  
: If the product contaminates rivers and lakes or drains inform  
respective authorities.

Methods and materials for : Contain spillage, and then collect with non-combustible  
containment and cleaning up absorbent material, (e.g. sand, earth, diatomaceous earth,  
vermiculite) and place in container for disposal according to  
local / national regulations (see section 13).

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against : Keep away from open flames, hot surfaces and sources of  
fire and explosion ignition. Take necessary action to avoid static electricity  
discharge (which might cause ignition of organic vapours).

Advice on safe handling : Do not breathe vapours/dust.  
: Avoid exposure - obtain special instructions before use.  
: Avoid contact with skin and eyes.  
: For personal protection see section 8.  
: Smoking, eating and drinking should be prohibited in the  
application area.  
: Take precautionary measures against static discharges.  
: Provide sufficient air exchange and/or exhaust in work rooms.  
: Open drum carefully as content may be under pressure.  
: Dispose of rinse water in accordance with local and national  
regulations.

Conditions for safe storage : No smoking.  
: Keep container tightly closed in a dry and well-ventilated  
place.  
: Take measures to prevent the build up of electrostatic charge.  
: Containers which are opened must be carefully resealed and  
kept upright to prevent leakage.  
: Observe label precautions.  
: Electrical installations / working materials must comply with  
the technological safety standards.

## MBR Cold Application Adhesive

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
asphalt	8052-42-4	TWA (Fume, inhalable fraction)	0.5 mg/m <sup>3</sup> (benzene soluble aerosol)	ACGIH
		C (Fumes)	5 mg/m <sup>3</sup>	NIOSH REL
Stoddard solvent	8052-41-3	TWA	100 ppm	ACGIH
		TWA	350 mg/m <sup>3</sup>	NIOSH REL
		C	1,800 mg/m <sup>3</sup>	NIOSH REL
		TWA	500 ppm 2,900 mg/m <sup>3</sup>	OSHA
quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable fraction)	0.025 mg/m <sup>3</sup>	ACGIH
		TWA (respirable)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA
		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA
		TWA (Respirable dust)	0.05 mg/m <sup>3</sup>	NIOSH REL
		TWA (Respirable dust)	0.05 mg/m <sup>3</sup>	OSHA

#### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection  
Material : Protective gloves

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Tightly fitting safety goggles

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

Wash hands before breaks and at the end of workday.  
Written instructions for handling must be available at the work place.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: brown, black
Odour	: hydrocarbon-like
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: 100 °C
Flash point	: 37.8 - 60.0 °C Method: Cleveland open cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.08 - 1.20 g/cm <sup>3</sup>
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. Stable under normal conditions.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides Sulphur oxides

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Harmful if inhaled.

**Product:**

Acute oral toxicity	: Acute toxicity estimate (Mouse): ca. 25,724.4473 mg/kg Acute toxicity estimate (Rat): ca. 25,765.8477 mg/kg
Acute dermal toxicity	: Acute toxicity estimate : 4,167 mg/kg Method: Calculation method
Acute toxicity (other routes of administration)	: LD50 (Rat): 20,994.4746 mg/kg

**Acute toxicity****Components:****asphalt:**

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 0.0944 mg/l Exposure time: 4.5 h
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg

**Acute toxicity****Stoddard solvent:**

Acute inhalation toxicity	: LC50 (Rat): > 5.5 mg/l Exposure time: 4 h Test atmosphere: vapour
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**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Result: Skin irritation

**Serious eye damage/eye irritation**

Causes eye irritation.

**Product:**

Result: Eye irritation

Respiratory sensitisation: Not classified based on available information.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

**Product:**

Exposure routes: Skin contact

Result: Not a skin sensitizer.

**IARC**

Group 1: Carcinogenic to humans

quartz (SiO<sub>2</sub>)

14808-60-7

Group 1: Carcinogenic to humans

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

Known to be human carcinogen

quartz (SiO<sub>2</sub>)

14808-60-7

Known to be human carcinogen

**STOT - single exposure**

May cause drowsiness or dizziness.

**Product:**

Target Organs: Central nervous system

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure if inhaled.

**Product:**

Assessment: May cause damage to organs through prolonged or repeated exposure.



**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: Solvents may degrease the skin.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****Stoddard solvent:**Partition coefficient: n-  
octanol/water : log Pow: 3.16 - 7.06**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).

Additional ecological  
information : No data available**Components:****asphalt:**Additional ecological  
information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Disposal of residual product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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**SECTION 14. TRANSPORT INFORMATION****International transport regulations**

US DOT: UN1999, Tars, liquid, 3, III.

Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

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**SECTION 15. REGULATORY INFORMATION****TSCA list**

TSCA - 5(a) Significant New Use Rule List of Chemicals : No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) : No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**MBR Cold Application Adhesive**

Version 2.1

Revision Date 10/03/2017

Print Date 11/13/2017

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)**

asphalt	8052-42-4
Stoddard solvent	8052-41-3
quartz (SiO <sub>2</sub> )	14808-60-7
benzene	71-43-2
benz[a]anthracene	56-55-3

**US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)**

asphalt	8052-42-4
Stoddard solvent	8052-41-3
quartz (SiO <sub>2</sub> )	14808-60-7

**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

WARNING! This product contains a chemical known to the State of California to cause cancer.

benz[a]anthracene	56-55-3
benzene	71-43-2

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

benzene	71-43-2
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**The components of this product are reported in the following inventories:**

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

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**SECTION 16. OTHER INFORMATION****Further information**

Revision Date : 10/03/2017

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.