

MBR® Flashing Cement – Base

Version 2.1

Revision Date 07/09/2021

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : MBR® Flashing Cement – Base

Manufacturer or supplier's details

 Company : Johns Manville
 Address : P.O. Box 5108
 Denver, CO USA 80127
 Telephone : +1-303-978-2000
 Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)
 number

 Company : Johns Manville Canada Inc.
 Address : 5301 42 Avenue
 Innisfail, AB Canada T4G 1A2
 Telephone : +1-303-978-2000
 Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)
 number

Recommended use of the chemical and restrictions on use

 Restrictions on use : For professional users only.
 Prepared by : productsafety@jm.com

SECTION 2. HAZARDS IDENTIFICATION
GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)

 Flammable liquids : Category 3
 Skin irritation : Category 2
 Eye irritation : Category 2A
 Carcinogenicity : Category 1B
 Specific target organ toxicity : Category 2 (Gastrointestinal tract, Immune system, Liver)
 - repeated exposure (Oral)

GHS label elements

Hazard pictograms :



Signal word : Danger

 Hazard statements : H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H350 May cause cancer.
 H373 May cause damage to organs (Gastrointestinal tract, Immune system, Liver) through prolonged or repeated exposure

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if swallowed.

Precautionary statements

:

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

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, oxidized	64742-93-4	>= 30 - < 60
distillates (petroleum), hydrotreated light	64742-47-8	>= 5 - < 10
Stoddard solvent	8052-41-3	>= 1 - < 5

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(Z)-octadec-9-enylamine	112-90-3	>= 1 - < 5
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Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
 Symptoms of poisoning may appear several hours later.
- If inhaled : Remove to fresh air immediately. Get medical attention immediately.
 If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 Call a physician if irritation develops or persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
 If easy to do, remove contact lens, if worn.
 Protect unharmed eye.
 If eye irritation persists, consult a specialist.
- If swallowed : DO NOT induce vomiting unless directed to do so by a physician or poison control center.
 Gently wipe or rinse the inside of the mouth with water.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician or Poison Control Centre immediately.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
 Causes serious eye irritation.
 May cause damage to organs through prolonged or repeated exposure if swallowed.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
 Water spray
 Dry chemical
 Foam
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Vapours may form explosive mixtures with air.
 Vapours are heavier than air and may spread along floors.
 Flash back possible over considerable distance.
 The product will float on water and can be reignited on surface water.
- Hazardous combustion products : carbon oxides
 nitrogen oxides
 Sulfur oxides
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Use personal protective equipment.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Remove all sources of ignition.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Use explosion-proof equipment.
Electrical equipment should be protected to the appropriate standard.
Take measures to prevent the build up of electrostatic charge.
Use only in area provided with appropriate exhaust ventilation.
Keep away from open flames, hot surfaces and sources of ignition.
Vapours are heavier than air and may spread along floors.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
The material can accumulate static charge and can therefore cause electrical ignition.
- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
Use explosion-proof equipment.
Keep away from sources of ignition - No smoking.
Take measures to prevent the build up of electrostatic charge.
- Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Recommended storage temperature : 16 - 32 °C
- Storage period : 24 Months
- Further information on storage stability : Keep tightly closed in a dry, cool and well-ventilated place.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
distillates (petroleum), hydrotreated light	64742-47-8	TWA (Mist)	5 mg/m ³	OSHA
		TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Stoddard solvent	8052-41-3	TWA	100 ppm	ACGIH
		TWA	350 mg/m ³	NIOSH REL
		C	1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,900 mg/m ³	OSHA

Engineering measures : Use only in an area equipped with explosion proof exhaust ventilation.
Provide exhaust ventilation close to floor level.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection
Material : Solvent-resistant gloves

Remarks : Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Wear safety glasses with side shields or goggles.
Skin and body protection : Wear protective clothing, such as long-sleeved shirts and pants.

Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Written instructions for handling must be available at the work place.
Contaminated work clothing should not be allowed out of the

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workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: black
Odour	: mild, hydrocarbon-like
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 371.1 °C estimated
Flash point	: 38.3 °C estimated
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: ca. 5 %(V)
Lower explosion limit	: ca. 0.7 %(V)
Vapour pressure	: 4 hPaestimated
Relative vapour density	: 4.9Heavier than air.
Relative density	: No data available
Density	: 0.9 g/cm ³
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: ca. 485 °C
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 4,000 - 7,000 mPa.s
Viscosity, kinematic	: > 20.5 mm ² /s (40 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Will ignite Hazardous decomposition products formed under fire conditions.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents Strong acids and strong bases
Hazardous decomposition	: Hazardous decomposition products formed under fire

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products

conditions.

SECTION 11. TOXICOLOGICAL INFORMATION
Acute toxicity
Product:

 Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

 Acute dermal toxicity : Acute toxicity estimate : 3,788 mg/kg
 Method: Calculation method

Components:
asphalt, oxidized:

 Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
 Method: OECD Test Guideline 401
 Remarks: No mortality was observed.

 Acute inhalation toxicity : LC50 (Rat, male and female): > 0.0944 mg/l
 Exposure time: 4.5 h
 Test atmosphere: vapour
 Method: OECD Test Guideline 403
 Assessment: The substance or mixture has no acute inhalation toxicity

 Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
 Method: OECD Test Guideline 402

distillates (petroleum), hydrotreated light:

 Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
 Method: OECD Test Guideline 420
 Remarks: Information given is based on data obtained from similar substances.

 Acute inhalation toxicity : LC50 (Rat, male and female): > 5.28 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: OECD Test Guideline 403
 Assessment: The substance or mixture has no acute inhalation toxicity
 Remarks: No mortality was observed.
 Information given is based on data obtained from similar substances.

 Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
 Method: OECD Test Guideline 402
 Remarks: Information given is based on data obtained from similar substances.

Stoddard solvent:

 Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.5 mg/l

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Exposure time: 4 h
 Test atmosphere: vapour
 Method: OECD Test Guideline 403
 Assessment: The substance or mixture has no acute inhalation toxicity
 Remarks: No mortality was observed.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,000 mg/kg
 Method: OECD Test Guideline 402

(Z)-octadec-9-enylamine:

Acute oral toxicity : LD50 (Rat, male and female): 1,689 mg/kg
 Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
 Method: OECD Test Guideline 402

Skin corrosion/irritation
Components:
distillates (petroleum), hydrotreated light:

Species: Rabbit

Result: Skin irritation

Remarks: Information taken from reference works and the literature.

Skin corrosion/irritation
Stoddard solvent:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

Skin corrosion/irritation
(Z)-octadec-9-enylamine:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation
Components:
(Z)-octadec-9-enylamine:

Species: Rabbit

Result: Irreversible effects on the eye

Method: OECD Test Guideline 405

Remarks: Based on data from similar materials

IARC

Group 2A: Probably carcinogenic to humans

asphalt, oxidized

64742-93-4

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 (29 CFR 1910 Subpart Z, Toxic and Hazardous Substances).

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NTP

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

STOT - single exposure**Components:****distillates (petroleum), hydrotreated light:**

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - single exposure**(Z)-octadec-9-enylamine:**

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

STOT - repeated exposure**Components:****Stoddard solvent:**

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system

Assessment: No significant health effects observed in animals at concentrations of 250 ppmV/6h/d or less.

STOT - repeated exposure**(Z)-octadec-9-enylamine:**

Exposure routes: Ingestion

Target Organs: Gastrointestinal tract, Immune system, Liver

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

Aspiration toxicity**Components:****distillates (petroleum), hydrotreated light:**

May be fatal if swallowed and enters airways.

Stoddard solvent:

May be fatal if swallowed and enters airways.

(Z)-octadec-9-enylamine:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****distillates (petroleum), hydrotreated light:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l
End point: mortality

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		Exposure time: 96 h
		Test Type: semi-static test
		Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 1.4 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	:	EL50 (Pseudokirchneriella subcapitata (algae)): 1 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (algae)): 1 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	NOELR (Oncorhynchus mykiss (rainbow trout)): 0.098 mg/l End point: mortality Exposure time: 28 d Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1
Stoddard solvent:		
Toxicity to algae	:	NOEC (Pseudokirchneriella subcapitata (algae)): 0.16 mg/l Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.142 mg/l Exposure time: 30 d Remarks: The value is calculated
(Z)-octadec-9-enylamine:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0.06 mg/l End point: mortality Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.98 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202

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- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.38 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (Desmodesmus subspicatus (green algae)): 0.15 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.013 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211

Persistence and degradability**Components:****Stoddard solvent:**

- Biodegradability : Result: Readily biodegradable.

(Z)-octadec-9-enylamine:

- Biodegradability : aerobic
Concentration: 20 mg/l
Biodegradation: 66 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Bioaccumulative potential**Components:****Stoddard solvent:**

- Partition coefficient: n-octanol/water : log Pow: 3.5 - 6.4 (20 °C)
Method: OECD Test Guideline 117

(Z)-octadec-9-enylamine:

- Partition coefficient: n-octanol/water : log Pow: 4.33 (25 °C)

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).

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Additional ecological information : Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

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.

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

Land transport

USDOT: Not classified as a dangerous good under transport regulations

TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: UN1139, Coating solution, 3, III (38.3 °C c.c.), Marine Pollutant

Air transport

IATA/ICAO: UN1139, Coating solution, 3, III

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.

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart 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 : Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Carcinogenicity

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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).

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 I Intermediate or Final VOC's (40 CFR 60.489).

California Prop. 65

 **WARNING:** This product can expose you to chemicals including bitumens, extracts of steam-refined and air refined, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

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

SECTION 16. OTHER INFORMATION**Further information**

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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.