

## JM PMMA Field / Flashing Resin – White

Version 2.0

Revision Date 06/15/2021

Print Date 06/17/2021

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : JM PMMA Field Resin – White (Summer), JM PMMA Field Resin – White (Winter), JM PMMA Flashing Resin – White (Summer), JM PMMA Flashing Resin – White (Winter)

#### Manufacturer or supplier's details

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

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

#### 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 2  
 Acute toxicity (Oral) : Category 4  
 Skin irritation : Category 2  
 Eye irritation : Category 2A  
 Skin sensitisation : Category 1  
 Specific target organ toxicity - single exposure : Category 2  
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

#### GHS label elements

Hazard pictograms : 

Signal word : Danger

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Hazard statements : H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H371 May cause damage to organs.

Precautionary statements : **Prevention:**  
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.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of  
the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON  
CENTER/doctor if you feel unwell. Rinse mouth.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately  
all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air  
and keep comfortable for breathing. Call a POISON  
CENTER/doctor if you feel unwell.  
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 + P311 IF exposed or concerned: Call a POISON  
CENTER/doctor.  
P333 + P313 If skin irritation or rash 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 + P233 Store in a well-ventilated place. Keep container  
tightly closed.  
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.

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**Other hazards**

None known.

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

Chemical name	CAS-No.	Concentration (%)
aluminum hydroxide	21645-51-2	>= 10 - <= 30
methyl methacrylate	80-62-6	>= 10 - <= 30
titanium dioxide	13463-67-7	>= 1 - <= 10
1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	>= 0.5 - <= 1.5
poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-[(1-oxo-2-propenyl)oxy]-	26570-48-9	>= 0.1 - <= 1

Actual concentration or concentration range is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice	: Handle in accordance with good industrial hygiene and safety practice. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.
If inhaled	: Remove person to fresh air. If signs/symptoms continue, get medical attention.
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 5 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	: Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs.
Protection of first-aiders	: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**SECTION 5. FIREFIGHTING MEASURES**

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Suitable extinguishing media	:	Carbon dioxide (CO <sub>2</sub> ) Foam Dry powder Water spray
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Vapours may form flammable mixture with air Vapours are heavier than air and may spread along floors.
Hazardous combustion products	:	carbon oxides nitrogen oxides Acrylic monomers aluminum oxides titanium/titanium 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 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 for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. 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 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). Non-sparking tools should be used. Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not pressurise, cut, weld, braze, solder, drill, or grind on
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containers.

- Advice on safe handling : Avoid formation of aerosol.  
 Do not breathe vapours/dust.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 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.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : For personal protection see section 8.  
 No smoking.  
 Keep containers tightly closed in a dry, cool and well-ventilated place.  
 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.
- Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Recommended storage temperature : 0 - 25 °C
- Storage period : 12 Months
- Further information on storage stability : Keep tightly closed in a dry, cool and well-ventilated place.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
aluminum hydroxide	21645-51-2	TWA (Respirable fraction)	1 mg/m <sup>3</sup> (Aluminium)	ACGIH
methyl methacrylate	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm 410 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 410 mg/m <sup>3</sup>	OSHA
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA
		TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH

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- Engineering measures** : Use a local and/or general ventilation system.  
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 : 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 : Wear safety glasses with side shields or goggles.  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Wear protective clothing, such as long-sleeved shirts and pants.  
Remove and wash contaminated clothing before re-use.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat, drink or smoke.  
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 : white  
 Odour : solvent-like  
 Odour Threshold : No data available  
 pH : No data available  
 Melting point/freezing point : Not applicable  
 Initial boiling point and boiling range : > 35 °C  
 Flash point : 2 - 22 °C  
 Method: Pensky-Martens closed cup  
 Evaporation rate : No data available  
 Flammability (solid, gas) : Not applicable

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Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	> 1(Air = 1.0)
Relative density	:	No data available
Density	:	1.19 - 1.26 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
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		
Viscosity, dynamic	:	2,500 - 16,000 mPa.s (20 °C)
Viscosity, kinematic	:	No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Avoid temperatures above 60°C, direct sunlight and contact with sources of heat.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Vapours may form explosive mixture with air. Polymerisation is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
Conditions to avoid	:	Avoid temperatures above 60°C, direct sunlight and contact with sources of heat.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases Reducing agents halogenated compounds
Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### **Product:**

Acute oral toxicity	:	Acute toxicity estimate : 497.714 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate : > 40 mg/l Exposure time: 4 h Test atmosphere: vapour

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Method: Calculation method

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

**Components:**
**aluminum hydroxide:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
 Method: OECD Test Guideline 423  
 GLP: yes

Acute inhalation toxicity : LC50 (Rat, male): 7.6 mg/l  
 Exposure time: 1 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

**methyl methacrylate:**

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

Acute inhalation toxicity : LC50 (Rat): 29.8 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

**titanium dioxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.09 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403

Acute dermal toxicity : Method: Expert judgement  
 Assessment: The substance or mixture has no acute dermal toxicity

**1,1'-(p-tolylimino)dipropan-2-ol:**

Acute oral toxicity : LD50 (Rat, male and female): > 25 mg/kg  
 Method: OECD Test Guideline 423

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

**Skin corrosion/irritation**
**Components:**
**methyl methacrylate:**

Result: Skin irritation



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**Skin corrosion/irritation**

**poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-[(1-oxo-2-propenyl)oxy]-:**  
Result: Irritating to skin.

**Serious eye damage/eye irritation****Components:****1,1'-(p-tolylimino)dipropen-2-ol:**

Species: Rabbit

Result: Eye irritation

Assessment: Irritating to eyes.

Method: OECD Test Guideline 405

**Serious eye damage/eye irritation**

**poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-[(1-oxo-2-propenyl)oxy]-:**  
Result: Risk of serious damage to eyes.

**Respiratory or skin sensitisation****Components:****methyl methacrylate:**

Assessment: May cause sensitisation by skin contact.

Result: Causes sensitisation.

**Respiratory or skin sensitisation**

**poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-[(1-oxo-2-propenyl)oxy]-:**  
Result: May cause sensitisation by skin contact.

**IARC**

Group 2B: Possibly carcinogenic to humans

titanium dioxide

13463-67-7

**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).

**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****Product:**

Assessment: May cause damage to organs.

**STOT - single exposure****Components:****methyl methacrylate:**

Exposure routes: Inhalation

Assessment: May cause respiratory irritation.

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**STOT - single exposure****poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-[(1-oxo-2-propenyl)oxy]-:**

Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****methyl methacrylate:**

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): > 79 mg/l  
Exposure time: 96 h  
Method: EPA OTS 797.1400

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 69 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: EPA-660/3-75-009

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): > 110 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**1,1'-(p-tolylimino)dipropan-2-ol:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 17 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 28.8 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 245 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****methyl methacrylate:**

Partition coefficient: n- : log Pow: 1.38 (20 °C)  
octanol/water pH: 7

**1,1'-(p-tolylimino)dipropan-2-ol:**

Partition coefficient: n- : log Pow: 2.1 (24 °C)  
octanol/water pH: 7.5  
Method: OECD Test Guideline 107

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**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 : Harmful to aquatic life.  
information Harmful to aquatic life with long lasting effects.

**Components:**

**poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-[(1-oxo-2-propenyl)oxy]-:**  
Additional ecological : Toxic to aquatic life with long lasting effects.  
information

**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.  
The product should not be allowed to enter drains, water  
courses or the soil.

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: UN1263, Paint, 3, II  
TDG: UN1263, Paint, 3, II

LIMITED QUANTITY if shipped in inner packagings not over 5.0 L (1.3 gallons) net capacity each,  
packed in a strong outer packaging.

Sea transport  
IMDG: UN1263, Paint, 3, II (-2 °C c.c.)

Air transport  
IATA/ICAO: UN1263, Paint, 3, II

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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.

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**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
methyl methacrylate	80-62-6	1000	3333

**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)  
 Acute toxicity (any route of exposure)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Respiratory or skin sensitisation  
 Specific target organ toxicity (single or repeated exposure)

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

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

methyl methacrylate                      80-62-6                      10 - 30 %

**Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

methyl methacrylate                      80-62-6                      10 - 30 %

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

methyl methacrylate                      80-62-6                      30 - 50 %

**California Prop. 65**

**⚠️ WARNING:** This product can expose you to chemicals including benzene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://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

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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.