

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : JM PMMA Repair Paste

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 2
Skin irritation : Category 2
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 1A
Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

H335 May cause respiratory irritation.
H340 May cause genetic defects.
H350 May cause cancer.

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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
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.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: 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.
P235 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

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

Hazardous components

Chemical name	CAS-No.	Concentration (%)
crystalline silica	14808-60-7	≥ 10 - ≤ 30
methyl methacrylate	80-62-6	≥ 7 - ≤ 30
2-ethylhexyl acrylate	103-11-7	≥ 7 - ≤ 30
Stoddard solvent	8052-41-3	≥ 0.1 - ≤ 1
naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	≥ 0.1 - ≤ 1

SECTION 4. FIRST AID MEASURES

General advice	: Do not leave the victim unattended.
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. Get medical attention immediately.
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. Keep respiratory tract clear. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed	: Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO ₂) Foam Dry powder Water spray
Unsuitable extinguishing media	: High volume water jet
Hazardous combustion products	: carbon oxides
Further information	: Standard procedure for chemical fires.

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

Use a water spray to cool fully closed containers.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Refer to protective measures listed in sections 7 and 8.
protective equipment and
emergency procedures

Methods and materials for : Wipe up with absorbent material (e.g. cloth, fleece).
containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against : Keep away from open flames, hot surfaces and sources of
fire and explosion ignition.
Keep away from combustible material.

Advice on safe handling : For personal protection see section 8.
Keep away from fire, sparks and heated surfaces.
Smoking, eating and drinking should be prohibited in the
application area.

Conditions for safe storage : Electrical installations / working materials must comply with
the technological safety standards.
Use explosion-proof equipment.
Keep container tightly closed in a dry and well-ventilated
place.

Materials to avoid : Store away from oxidizing agents.

Recommended storage : 0 - 25 °C
temperature

Storage period : 12 Months

Further information on : Do not freeze.
storage stability

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
crystalline silica	14808-60-7	TWA	0.025 mg/m ³	ACGIH

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

		(Respirable fraction)		
		TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA
		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA
		TWA (Respirable dust)	0.05 mg/m ³	NIOSH REL
		TWA (Respirable dust)	0.05 mg/m ³	OSHA
methyl methacrylate	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm 410 mg/m ³	NIOSH REL
		TWA	100 ppm 410 mg/m ³	OSHA

Hazardous components without workplace control parameters

Components	CAS-No.
2-ethylhexyl acrylate	103-11-7

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 : Nitrile rubber butyl-rubber

Eye protection : Safety glasses with side-shields
Tightly fitting safety 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.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Written instructions for handling must be available at the work place.
Wash hands before eating, drinking, or smoking.

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Colour	: grey
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: ca. 101 °C
Flash point	: ca. 2 °C Method: closed 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	: ca. 1.34 g/cm ³
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	: ca. 4,500 mPa.s
Viscosity, kinematic	: No data available

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents Strong acids Strong bases
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: carbon oxides

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

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
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Acute toxicity**Components:****crystalline silica:**

Acute oral toxicity	: LD50 (Rat): > 22,500 mg/kg
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: Assessment: The substance or mixture has no acute dermal toxicity

Acute 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

Acute toxicity**2-ethylhexyl acrylate:**

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

- Acute oral toxicity : LD50 (Rat, male and female): 4,435 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, male and female): > 1.19 mg/l
Exposure time: 8 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

- Acute dermal toxicity : LD50 (Rabbit): 7,522 mg/kg

Acute toxicity**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
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

Acute toxicity**naphtha (petroleum), hydrodesulfurized heavy:**

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Information given is based on data obtained from similar substances.
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.61 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: 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.

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

Result: Skin irritation

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

Skin corrosion/irritation**2-ethylhexyl acrylate:**

Species: Rabbit

Assessment: Irritating to skin.

Result: Irritating to skin.

Skin corrosion/irritation**Stoddard solvent:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

Skin corrosion/irritation**naphtha (petroleum), hydrodesulfurized heavy:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: irritating

Remarks: Information taken from reference works and the literature.

Serious eye damage/eye irritation**Components:****2-ethylhexyl acrylate:**

Species: Rabbit

Result: No eye irritation

Assessment: No eye irritation

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

Assessment: May cause sensitisation by skin contact.

Result: Causes sensitisation.

Respiratory or skin sensitisation**2-ethylhexyl acrylate:**

Species: Mouse

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity**Product:**Germ cell mutagenicity-
Assessment: Presumed to induce heritable mutations in the germ cells of
humans.**IARC**

Group 1: Carcinogenic to humans

crystalline silica

14808-60-7

OSHANo 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).

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

NTP

Known to be human carcinogen

crystalline silica

14808-60-7

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

Exposure routes: Inhalation

Assessment: May cause respiratory irritation.

STOT - single exposure**2-ethylhexyl acrylate:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - single exposure**naphtha (petroleum), hydrodesulfurized heavy:**

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

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

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

STOT - repeated exposure**naphtha (petroleum), hydrodesulfurized heavy:**

Target Organs: Central nervous system

Assessment: Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity**Components:****Stoddard solvent:**

May be fatal if swallowed and enters airways.

naphtha (petroleum), hydrodesulfurized heavy:

May be fatal if swallowed and enters airways.

Further information**Product:**

Remarks: No data available

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****crystalline silica:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l
Exposure time: 72 h

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

2-ethylhexyl acrylate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.81 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.3 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 1.71 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.136 mg/l
aquatic invertebrates : Exposure time: 21 d
(Chronic toxicity) : Test Type: semi-static test
Method: OECD Test Guideline 211

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 : NOEC: 0.142 mg/l
toxicity) : Exposure time: 30 d
Remarks: The value is calculated

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

naphtha (petroleum), hydrosulfurized heavy:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 4.5 mg/l
aquatic invertebrates
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (algae)): 3.7 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (algae)): 0.5 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to daphnia and other : NOELR (Daphnia magna (Water flea)): 2.6 mg/l
aquatic invertebrates
(Chronic toxicity)
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211

Persistence and degradability**Components:****2-ethylhexyl acrylate:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 15 d

Stoddard solvent:

Biodegradability : Result: Readily biodegradable.

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

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

2-ethylhexyl acrylate:

Partition coefficient: n- : log Pow: 4.64 (25 °C)
octanol/water Method: OECD Test Guideline 107

Stoddard solvent:

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

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

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 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.

Contaminated packaging : Empty containers should be taken to an approved waste
handling site for recycling or disposal.
Packaging that cannot be reused after cleaning must be
disposed or recycled in accordance with all federal, national
and local regulations.

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

SECTION 15. REGULATORY INFORMATION**TSCA list**

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

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 : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

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 7 - 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 7 - 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 7 - 30 %

California Prop. 65

 **WARNING:** This product can expose you to chemicals including crystalline silica, 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:

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

TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

JM PMMA Repair Paste

Version 1.2

Revision Date 06/09/2020

Print Date 06/09/2020

SECTION 16. OTHER INFORMATION**Further information**

Revision Date : 06/09/2020

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.