

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade name : SeamFree PMMA Flashing Resin - Standard Grade

Manufacturer or supplier's details

Company : Johns Manville

Address : P.O. Box 5108  
Denver, CO USA 80127

Telephone : 303-978-2000 8:00AM-5:00PM M-F

Emergency telephone : 1-800-424-9300 (Chemtrec, in English)  
number

Prepared by : productsafety@jm.com

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

Flammable liquids : Category 3

Skin irritation : Category 2

Skin sensitisation : Category 1

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure**GHS Label element**

Hazard pictograms



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.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.  
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/ eye protection/ face protection.

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

**Response:**

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

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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 for extinction.

**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 waste disposal plant.

**Other hazards**

None known.

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

Chemical Name	CAS-No.	Concentration (%)
methyl methacrylate	80-62-6	>= 10 - < 20
2-ethylhexyl acrylate	103-11-7	>= 10 - < 20

**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.
- If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Remove contact lenses.  
Immediately flush eye(s) with plenty of water.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

If symptoms persist, call a physician.

**SECTION 5. FIREFIGHTING MEASURES**

- |   |   |   |
|---|---|---|
| Suitable extinguishing media                  | : | Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical   |
| Unsuitable extinguishing media                | : | High volume water jet   |
| Specific hazards during firefighting          | : | Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products                 | : | No hazardous combustion products are known  |
| Specific extinguishing methods                | : | Standard procedure for chemical fires.  |
| Further information                           | : | Standard procedure for chemical fires.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments.<br>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.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.             |
| Environmental precautions   | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>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). |

**SECTION 7. HANDLING AND STORAGE**

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

- 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.
  - 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 :
- No smoking.
  - Keep container tightly closed in a dry 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.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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
		TWA	100 ppm 410 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
- 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

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

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.  
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 : coloured

Odour : ester-like

Odour Threshold : not determined

pH : not determined

Melting point/range : not determined

Initial boiling point and boiling range : No data available

Flash point : 35 °C  
Method: ISO 3680

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 : 1.21 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Viscosity  
Viscosity, dynamic : 500 mPa.s (20 °C)  
Method: ISO 2555

Viscosity, kinematic : No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method**Acute toxicity****Components:****methyl methacrylate:**Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401Acute inhalation toxicity : LC50 (Rat): 29.8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): &gt; 5,000 mg/kg

**Acute toxicity****2-ethylhexyl acrylate:**

Acute oral toxicity : LD50 (Rat): 4,435 mg/kg

**Skin corrosion/irritation****Product:**

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

Assessment: Irritating to skin.

Result: Irritating to skin.

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Respiratory or skin sensitisation****Product:**

Assessment: May cause sensitisation by skin contact.

Result: May cause sensitisation by skin contact.

Remarks: May cause sensitisation of susceptible persons by skin contact or by inhalation of aerosol or dust.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**

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

**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**

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 respiratory irritation.

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

Remarks: Solvents may degrease the skin.

---

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

No data available

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

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

---

**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 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.

---

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

US DOT: UN1263 Paint, 3, III

---

**SECTION 15. REGULATORY INFORMATION**

TSCA list : Not relevant  
Not relevant

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

Components	CAS-No.	Component RQ	Calculated product RQ
------------	---------	--------------	-----------------------

**SeamFree PMMA Flashing Resin - Standard Grade**

Version 1.1

Revision Date 11/13/2014

Print Date 11/13/2014

		(lbs)	(lbs)
methyl methacrylate	80-62-6	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

methyl methacrylate	80-62-6	19.9 %
---------------------	---------	--------

**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	19.9 %
---------------------	---------	--------

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	19.9 %
---------------------	---------	--------

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**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.

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

Revision Date : 11/13/2014

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.