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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name	:	JM TPO Pourable Sealer-Part A
Manufacturer or supplier's det	ails	
Company Address	:	Johns Manville P.O. Box 5108 Denver, CO USA 80127
Telephone Emergency telephone number	:	303-978-2000 8:00AM-5:00PM M-F 1-800-424-9300 (Chemtrec, in English)
Prepared by	:	productsafety@jm.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice	 Move out of dangerous area. Consult a physician. 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	 Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital.



JM TPO Pourable Sealers-Part A				
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	Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.			
If swallowed	 Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. 			
SECTION 5. FIREFIGHTING MEA	URES			
Unsuitable extinguishing media	: High volume water jet			
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or v courses.	water		
Hazardous combustion products	: No hazardous combustion products are known			
Specific extinguishing methods	: None known.			
Further information	 Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately must not be discharged into drains. Fire residues and contaminated fire extinguishing water be disposed of in accordance with local regulations. 			
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting necessary.	if		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment.
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	: 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 safe handling	: Do not breathe vapours/dust.	
	Avoid contact with skin and eyes.	



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Conditions for safe storage	 For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and nationa regulations. Keep container tightly closed in a dry and well-ventilated 	
	place. Electrical installations / working mathematical installations and the technological safety standards	aterials must comply with

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

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 contact).	of
Eye protection	Tightly fitting safety goggles Wear face-shield and protective suit for abnormal process problems.	ing
Skin and body protection	impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place	ce.
Hygiene measures	Handle in accordance with good industrial hygiene and sa 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 w place.	·

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: No data available
Odour	: No data available
Odour Threshold	: No data available
рН	: No data available



	FOUL	able Sealers-Part A	
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Melting point/freezing point	: No data	a available	
Initial boiling point and boiling range	: No data	a available	
Flash point	: No data	a available	
Evaporation rate	: No data	a available	
Flammability (solid, gas)	: No data	a available	
Upper explosion limit	: No data	a available	
Lower explosion limit	: No data	a available	
Vapour pressure	: No data	a available	
Relative vapour density	: No data	a available	
Relative density	: No data	a available	
Density	: 0.99 g/o	cm3	
Water solubility	: No data	a available	
Solubility in other solvents	: No data	a available	
Partition coefficient: n- octanol/water	: No data	a available	
Auto-ignition temperature	: No data	a available	
Thermal decomposition	: No data	a available	
Viscosity, dynamic	: No data	a available	
Viscosity, kinematic	: No data	a 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.
Conditions to avoid	: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

Product:



JM TPO Pourable Sealers-Part A				
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Remarks: Extremely corrosive and destructive to tissue.				
Serious eye damage/eye irritation				
<u>Product:</u> Remarks: May cause irreversit	ble eye damage.			
IARC	No component of this product present at le equal to 0.1% is identified as probable, po human carcinogen by IARC.	0		
ACGIH	No component of this product present at le equal to 0.1% is identified as a carcinogen carcinogen by ACGIH.			
OSHA	No component of this product present at le equal to 0.1% is identified as a carcinogen carcinogen by OSHA.			
NTP	No component of this product present at le equal to 0.1% is identified as a known or a by NTP.			
Further information				

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
No data available	
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 :	No data available



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information

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.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

These products are not classified as dangerous goods according to international transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list

: Not relevant

Not relevant

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 a SARA 302	 iny components with a section 304 EHS RQ. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
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 12 (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 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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.



JM TPO Pourable Sealers-Part A		
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	iventories:	
,	e on the Canadian DSI	

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.



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SECTION 1. PRODUCT AND C	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION			
Trade name	: JM EPDM/PVC Pourable Sealer-Part B			
Manufacturer or supplier's	Manufacturer or supplier's details			
Company Address	 Johns Manville P.O. Box 5108 Denver, CO USA 80127 			
Telephone Emergency telephone number	 +1 303-978-2000 8:00AM-5:00PM M-F 1-800-424-9300 (Chemtrec, in English) 			
Prepared by	: productsafety@jm.com			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Inhalation)	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2B
Respiratory sensitisation	: Category 1
Skin sensitisation	: Category 1
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure	: Category 1 (Respiratory Tract)
GHS Label element Hazard pictograms	
Signal word	: Danger
Hazard statements	 H320 Causes eye irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H372 Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.
Precautionary statements	: Prevention:



JM EP	DM/PVC Pourable Sealer-Pa	art B
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	 P261 Avoid breathing dust/ fume/ P264 Wash skin thoroughly after h P271 Use only outdoors or in a we P272 Contaminated work clothing the workplace. P280 Wear eye protection/ face pu P280 Wear protective gloves. P285 In case of inadequate ventila protection. P270 Do not eat, drink or smoke v Response: P302 + P352 IF ON SKIN: Wash v P304 + P340 + P312 IF INHALED and keep at rest in a position com POISON CENTER or doctor/ phys P305 + P351 + P338 IF IN EYES: for several minutes. Remove conta to do. Continue rinsing. P333 + P313 If skin irritation or ras attention. P362 Take off contaminated clothi Storage: P403 Store in a well-ventilated pla P404 Store in a closed container. Disposal: P501 Dispose of contents/ contain disposal plant. 	handling. ell-ventilated area. g should not be allowed out of protection. ation wear respiratory when using this product. with plenty of soap and water D: Remove victim to fresh air nfortable for breathing. Call a sician if you feel unwell. : Rinse cautiously with water tact lenses, if present and ear ash occurs: Get medical advice/ sists: Get medical advice/ hing and wash before reuse. ace.

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Diphenylmethanediisocyanate	9016-87-9	>= 30 - < 50
4,4'-methylenediphenyl diisocyanate	101-68-8	>= 20 - < 30

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	: Call a physician or poison control centre immediately. If unconscious place in recovery position and seek medical advice.
In case of skin contact	 If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

US/EN



JWI EFDW/FVG FOULADIE Sealer-Fait D		
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In case of eye contact	 Remove contact lenses. Immediately flush eye(s) with plen Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a second s	
If swallowed	: Induce vomiting immediately and o Keep respiratory tract clear. Never give anything by mouth to a If symptoms persist, call a physicia Take victim immediately to hospita	n unconscious person. an.
Most important symptoms and effects, both acute and delayed	: None known.	

SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing media	: High volume water jet
Hazardous combustion products	: Hazardous decomposition products due to incomplete combustion
Specific extinguishing methods	: Standard procedure for chemical fires.
Further information	: Standard procedure for chemical fires.
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.
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	: 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	: Normal measures for preventive fire protection	า.
fire and explosion		



JNI LEDIN/FVC FOULADIE Sealei-Fait D				
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Advice on safe handling	 Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special in Avoid contact with skin and eyes. For personal protection see sectio Smoking, eating and drinking shot application area. Provide sufficient air exchange an Dispose of rinse water in accordar regulations. Persons susceptible to skin sensit allergies, chronic or recurrent resp be employed in any process in wh 	structions before use. In 8. Ind be prohibited in the d/or exhaust in work rooms. Ince with local and national isation problems or asthma, piratory disease should not		
Conditions for safe storage	 used. Keep container tightly closed in a place. Observe label precautions. Electrical installations / working m the technological safety standards Store in tightly closed containers t contamination. Do not reseal if contamination. 	aterials must comply with s. o prevent moisture		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		С	0.02 ppm 0.2 mg/m3	NIOSH REL
		С	0.02 ppm 0.2 mg/m3	OSHA
		С	0.02 ppm 0.2 mg/m3	OSHA

Components with workplace control parameters

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 Wear face-shield and protective suit for abnormal processing



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		problems.	
Skin and body protection	:	impervious clothing Choose body protection according to th concentration of the dangerous substan	
Hygiene measures	:	Handle in accordance with good indust practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the e Written instructions for handling must b place.	end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Colour	: No data available
Odour	: slight
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 406 F
Flash point	: No data available
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	: 5 mmHg
Relative vapour density	: 8.5
Relative density	: No data available
Density	: 9.01 lb/gal
Solubility(ies) Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available



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Auto-ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, dynamic	: No data available	
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.	
Conditions to avoid	: If contained in exposed to high heat, 400 F it can be pressurized and possibility rupture. MDI reacts slowly with water to form CO2 gas. This gas can cause sealed contain to expand and possibly rupture.	er
Incompatible materials	: Strong bases Amines	
Hazardous decomposition products	: Hazardous decomposition products due to incomplete combustion Nitrogen oxides (NOx)	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute inhalation toxicity	: Acute toxicity estimate : 15.71 mg/l
	Exposure time: 4 h
	Test atmosphere: vapour
	Method: Calculation method

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.



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Respiratory or skin sensitis	sation	
<u>Product:</u> Remarks: May cause sensitis aerosol or dust.	ation of susceptible persons by skin cor	tact or by inhalation of
IARC	No component of this product present equal to 0.1% is identified as probable human carcinogen by IARC.	5
ACGIH	No component of this product present equal to 0.1% is identified as a carcin carcinogen by ACGIH.	5
OSHA	No component of this product present equal to 0.1% is identified as a carcin carcinogen by OSHA.	
NTP	No component of this product present equal to 0.1% is identified as a known by NTP.	
Further information		
<u>Product:</u> Remarks: No data available		

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available		
Persistence and degradability No data available	/	
Bioaccumulative potential No data available		
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



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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 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.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

These products are not classified as dangerous goods according to international transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list TSCA - 5(a) Significant New Use Rule List of Chemicals	:	Not relevant
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)	:	Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
4,4'-methylenediphenyl diisocyanate	101-68-8	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

	 ny components with a section 304 EHS RQ. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. 	g	
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:		
	Diphenylmethanediisocyan 9016-87-9 30 9 ate	%	



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	4,4'-methylenediphenyl diisocyanate	101-68-8	20 %		
Clean Air Act					
The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):					
4,4'-methylenediphen diisocyanate	yl 101-68-8	20 %			
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 SOCMI Intermediate or Final VOC's (40 CFR 60.489): 4,4'-methylenediphenyl 101-68-8 20 %					
diisocyanate					
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 proc	duct are on the	e 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.