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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : JM PVC Membrane Adhesive (Water Based)

Manufacturer or supplier's details

Company Johns Manville Address P.O. Box 5108

Denver, CO USA 80127

+1 303-978-2000 8:00 a.m.-5:00 p.m. M-F Telephone

Emergency telephone

number

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

Prepared by productsafety@jm.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids Category 4

Acute toxicity (Oral) Category 3

Acute toxicity (Dermal) Category 3

Acute toxicity (Inhalation) Category 3

Skin irritation Category 2

Eye irritation Category 2A

Reproductive toxicity Category 2

Specific target organ toxicity

- single exposure

Category 1

Specific target organ toxicity:

- repeated exposure

Category 2

Aspiration hazard Category 1

**GHS** label elements

Hazard pictograms







Signal word Danger

Hazard statements H227 Combustible liquid.

H304 May be fatal if swallowed and enters airways.

H301 Toxic if swallowed. H311 Toxic in contact with skin.

H331 Toxic if inhaled.



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H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or

repeated exposure.

### 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.

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.

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

#### Response:

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

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

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

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

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

## Storage:

P233 Keep container tightly closed.

P235 Keep cool.

P403 Store in a well-ventilated place.

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.



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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## **Hazardous components**

| Chemical name | CAS-No.  | Concentration (%) |
|---------------|----------|-------------------|
| toluene       | 108-88-3 | >= 3 - <= 10      |
| methanol      | 67-56-1  | >= 1 - <= 5       |

## **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

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 eyes or skin with plenty

of water for at least 15 minutes while removing contaminated

clothing and shoes.

Get medical attention immediately if irritation persists.

In case of eye contact : In case of eye contact, remove contact lens and rinse

immediately with plenty of water, also under the eyelids, for at

least 15 minutes.

Keep eye wide open while rinsing.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.

Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: None known.

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

Carbon dioxide (CO2)

Dry chemical

Foam

Unsuitable extinguishing

media

High volume water jet

Hazardous combustion

products

Carbon oxides



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Further information Standard procedure for chemical fires.

For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

for firefighters

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

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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 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

Keep away from open flames, hot surfaces and sources of

ignition.

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. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage No smoking.

> Keep in a well-ventilated place. 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

4/12 US/EN



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| Components | CAS-No.  | Value type<br>(Form of<br>exposure) | Control parameters / Permissible concentration | Basis     |
|------------|----------|-------------------------------------|--|-----------|
| toluene    | 108-88-3 | TWA                                 | 20 ppm   | ACGIH     |
|            |          | TWA                                 | 100 ppm<br>375 mg/m3                           | NIOSH REL |
|            |          | ST                                  | 150 ppm<br>560 mg/m3                           | NIOSH REL |
|            |          | TWA                                 | 200 ppm  | OSHA      |
|            |          | CEIL                                | 300 ppm  | OSHA      |
|            |          | Peak                                | 500 ppm<br>(10 minutes)                        | OSHA      |
| methanol   | 67-56-1  | TWA                                 | 200 ppm  | ACGIH     |
|            |          | STEL                                | 250 ppm  | ACGIH     |
|            |          | TWA                                 | 200 ppm<br>260 mg/m3                           | NIOSH REL |
|            |          | ST                                  | 250 ppm<br>325 mg/m3                           | NIOSH REL |
|            |          | TWA                                 | 200 ppm<br>260 mg/m3                           | OSHA      |

#### 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 : 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

Safety glasses with side-shields

Skin and body protection : Impervious clothing

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.



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Written instructions for handling must be available at the work place.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : white

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : not determined

Initial boiling point and boiling

range

: > 100 ℃

Flash point : 91.1 ℃

Method: closed cup

Evaporation rate : > 1

(n-Butyl acetate = 1.0)

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 : 1.078(Water = 1.0)

Solubility(ies)

Water solubility : soluble

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, dynamic : No data available

Viscosity, kinematic : No data available



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## **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

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

Carbon oxides

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

## **Components:**

toluene:

Acute oral toxicity : LD50 Oral (Rat, male): 5,580 mg/kg

Acute inhalation toxicity : LC50 (Rat): 28.1 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 12,267 mg/kg

Acute toxicity

methanol:

Acute oral toxicity : LDLo (Humans): 143 mg/kg

LD50 (Rat): 1,187 - 2,769 mg/kg

Acute inhalation toxicity : LC50 (Rat): 128.2 mg/l

Exposure time: 4 h

LC50 (Rat): 87.6 mg/l Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): 17,100 mg/kg

## Skin corrosion/irritation

## Components:

toluene:

Species: Rabbit

Result: Irritating to skin.

#### Skin corrosion/irritation

methanol:



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Species: Rabbit Result: No skin irritation

## Serious eye damage/eye irritation

## **Components:**

toluene:

Species: Rabbit

Result: Mild eye irritation Exposure time: 24 h

## Serious eye damage/eye irritation

methanol:

Species: Rabbit Result: No eye irritation

Respiratory sensitisation: Not classified based on available information.

#### Respiratory or skin sensitisation

## **Components:**

methanol:

Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

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.

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.

## Reproductive toxicity

#### Components:

toluene:

Reproductive toxicity -

Assessment

: Suspected of damaging the unborn child., Some evidence of

adverse effects on development, based on animal

experiments.

## STOT - single exposure

#### Components:

toluene:

Assessment: May cause drowsiness or dizziness.



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STOT - single exposure

methanol:

Assessment: Causes damage to organs.

STOT - repeated exposure

**Components:** 

toluene:

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

**Aspiration toxicity** 

May be fatal if swallowed and enters airways.

**Components:** 

toluene:

May be fatal if swallowed and enters airways.

Experience with human exposure

**Components:** 

toluene:

Skin contact:

Remarks: Prolonged skin contact may defat the skin

and produce dermatitis.

**Further information** 

**Product:** 

Remarks: Solvents may degrease the skin.

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

Components:

toluene:

Partition coefficient: n-

: Pow: 2.7

octanol/water

methanol:

Partition coefficient: n-

: log Pow: -0.77

octanol/water



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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

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.

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

US DOT (Shipped by Ground):

Containers less than or equal to 119 gallons (450 L):

Not Regulated by DOT

Containers larger than 119 gallons (450 L):

DOT Shipping Name: NA1993, Combustible liquid, n.o.s. (toluene, methanol), 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.



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US. Toxic Substances Control Act (TSCA) Section : No substances are subject to TSCA 12(b) Export Notification (40 CFR 707, Subpt D) 12(b) export notification requirements.

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

## **CERCLA Reportable Quantity**

| Components | CAS-No.  | Component RQ | Calculated product RQ |
|------------|----------|--------------|-----------------------|
|            |          | (lbs)        | (lbs)                 |
| toluene    | 108-88-3 | 1000         | *                     |
| toluene    | 108-88-3 | 100          | *                     |

<sup>\*:</sup> 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 311/312 Hazards : 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:

toluene 108-88-3 methanol 67-56-1

## Clean Air Act

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

toluene 108-88-3 methanol 67-56-1

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):

toluene 108-88-3 methanol 67-56-1

# US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

toluene 108-88-3 methanol 67-56-1

# US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

 water
 7732-18-5

 toluene
 108-88-3

 methanol
 67-56-1

# US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

 water
 7732-18-5

 toluene
 108-88-3



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methanol 67-56-1

## US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

toluene 108-88-3

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

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

TSCA : On TSCA Inventory

#### **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.