

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : JM PVC Membrane Adhesive (Low VOC)

Manufacturer or supplier's details

Company : Johns Manville
Address : P.O. Box 5108
Denver, CO USA 80217-5108
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

Recommended use : Adhesives and/or sealants
Restrictions on use : For professional users only.
Prepared by : productsafety@jm.com

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Regulations

Flammable liquids : Category 2
Skin irritation : Category 2
Eye irritation : Category 2A
Reproductive toxicity : Category 2
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)
Specific target organ toxicity - repeated exposure : Category 2 (Auditory system)

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs (Auditory system) 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.
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 mist or vapours.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
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.
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 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation 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.

Other hazards

None known.

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------------------------|----------|-----------------------|
| 2-Propanone; Acetone | 67-64-1 | ≥ 60 - < 80 |
| 2-Butanone; Methyl ethyl ketone | 78-93-3 | ≥ 5 - < 10 |
| Benzene, methyl-; Toluene | 108-88-3 | ≥ 1 - < 5 |

Actual concentration or concentration range is withheld as a trade secret

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.
Symptoms of poisoning may appear several hours later.
- 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.
Get medical attention immediately.
If breathing is irregular or stopped, administer artificial respiration.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry chemical
Foam
- 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.
Flash back possible over considerable distance.
- Hazardous combustion products : carbon oxides
- 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 : Ensure adequate ventilation.
Use personal protective equipment.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Remove all sources of ignition.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Should not be released into the environment.
- 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 : Use explosion-proof equipment.
Electrical equipment should be protected to the appropriate standard.
Take measures to prevent the build up of electrostatic charge.
Use only in area provided with appropriate exhaust ventilation.
Keep away from open flames, hot surfaces and sources of ignition.
Vapours are heavier than air and may spread along floors.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
Use explosion-proof equipment.
Keep away from sources of ignition - No smoking.

Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.

Recommended storage temperature : 60 - 80 °F / 16 - 27 °C

Further information on storage stability : Keep containers tightly closed in a dry, cool place.
Do not freeze.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---------------------------------|---------|----------------------------------|---|-----------|
| 2-Propanone; Acetone | 67-64-1 | TWA | 500 ppm 1,200 mg/m ³ | CA AB OEL |
| | | STEL | 750 ppm 1,800 mg/m ³ | CA AB OEL |
| | | TWA | 250 ppm | CA BC OEL |
| | | STEL | 500 ppm | CA BC OEL |
| | | STEV | 1,000 ppm 2,380 mg/m ³ | CA QC OEL |
| | | TWAEV | 500 ppm 1,190 mg/m ³ | CA QC OEL |
| | | TWA | 250 ppm | ACGIH |
| | | STEL | 500 ppm | ACGIH |
| | | TWA | 250 ppm 590 mg/m ³ | NIOSH REL |
| | | TWA | 1,000 ppm 2,400 mg/m ³ | OSHA |
| 2-Butanone; Methyl ethyl ketone | 78-93-3 | TWA | 200 ppm 590 mg/m ³ | CA AB OEL |
| | | STEL | 300 ppm 885 mg/m ³ | CA AB OEL |
| | | TWA | 50 ppm | CA BC OEL |
| | | STEL | 100 ppm | CA BC OEL |
| | | TWAEV | 50 ppm 150 mg/m ³ | CA QC OEL |
| | | STEV | 100 ppm 300 mg/m ³ | CA QC OEL |
| | | TWA | 200 ppm | ACGIH |
| | | STEL | 300 ppm | ACGIH |
| | | TWA | 200 ppm 590 mg/m ³ | NIOSH REL |
| | | ST | 300 ppm 885 mg/m ³ | NIOSH REL |
| | | TWA | 200 ppm 590 mg/m ³ | OSHA |

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

| | | | | |
|---------------------------|----------|------|----------------------------------|-----------|
| Benzene, methyl-; Toluene | 108-88-3 | TWA | 50 ppm 188 mg/m ³ | CA AB OEL |
| | | TWA | 20 ppm | CA BC OEL |
| | | TWA | 20 ppm | ACGIH |
| | | TWA | 100 ppm 375 mg/m ³ | NIOSH REL |
| | | ST | 150 ppm 560 mg/m ³ | NIOSH REL |
| | | TWA | 200 ppm | OSHA |
| | | CEIL | 300 ppm | OSHA |
| | | Peak | 500 ppm (10 minutes) | OSHA |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|---------------------------------|----------|---------------------|---------------------|--|---------------------------|-----------|
| 2-Propanone; Acetone | 67-64-1 | Acetone | Urine | End of shift (As soon as possible after exposure ceases) | 25 mg/l | ACGIH BEI |
| 2-Butanone; Methyl ethyl ketone | 78-93-3 | methyl ethyl ketone | Urine | End of shift (As soon as possible after exposure ceases) | 2 mg/l | ACGIH BEI |
| Benzene, methyl-; Toluene | 108-88-3 | Toluene | In blood | Prior to last shift of workweek | 0.02 mg/l | ACGIH BEI |
| | | Toluene | Urine | End of shift (As soon as possible after exposure ceases) | 0.03 mg/l | ACGIH BEI |
| | | o-Cresol | Urine | End of shift (As soon as possible after exposure ceases) | 0.3 mg/g creatinine | ACGIH BEI |

Engineering measures : Use only in an area equipped with explosion proof exhaust ventilation.
Provide exhaust ventilation close to floor level.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

| | | |
|--------------------------|---|---|
| | | 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 | : | Nitrile rubber |
| Material | : | Solvent-resistant gloves |
| Remarks | : | Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. |
| Eye protection | : | Wear safety glasses with side shields or goggles. |
| Skin and body protection | : | Wear protective clothing, such as long-sleeved shirts and pants. Remove and wash contaminated clothing before re-use. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. Written instructions for handling must be available at the work place. Contaminated work clothing should not be allowed out of the workplace. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|------------------------------|
| Appearance | : | liquid |
| Colour | : | amber |
| Odour | : | solvent-like |
| Odour Threshold | : | No data available |
| pH | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | 56.1 °C |
| Flash point | : | -17 °C |
| Evaporation rate | : | > 1.0 (Butyl Acetate=1.0) |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit | : | 12.8 %(V) |
| Lower explosion limit | : | 1.0 %(V) |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | 0.89 |

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

| | |
|--|-------------------------------------|
| Solubility(ies) | |
| Water solubility | : slightly soluble |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature | : 403.9 - 536.1 °C |
| Thermal decomposition | : No data available |
| Viscosity | |
| Viscosity, dynamic | : 1,800 - 2,400 mPa.s |
| Viscosity, kinematic | : > 20.5 mm ² /s (40 °C) |

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 | : Will ignite Hazardous decomposition products formed under fire conditions. |
| Conditions to avoid | : Heat, flames and sparks. |
| Incompatible materials | : Oxidizing agents Strong acids and 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 |
| Acute inhalation toxicity | : Acute toxicity estimate : > 200 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method |

Components:**2-Propanone; Acetone:**

| | |
|---------------------------|---|
| Acute oral toxicity | : LD50 (Rat, female): 5,800 mg/kg GLP: no |
| Acute inhalation toxicity | : LC50 (Rat, female): 76.0 mg/l Exposure time: 4 h Test atmosphere: vapour GLP: no |

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

Acute dermal toxicity : LD50 (Rabbit): > 15,800 mg/kg

2-Butanone; Methyl ethyl ketone:Acute oral toxicity : LD50 (Rat, male and female): 2,193 mg/kg
Method: OECD Test Guideline 423

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

Acute dermal toxicity : LD50 (Rabbit, male): > 8,054 mg/kg
Method: OECD Test Guideline 402
GLP: no**Benzene, methyl-; Toluene:**Acute oral toxicity : LD50 Oral (Rat, male): 5,580 mg/kg
Method: Regulation (EC) No. 440/2008, Annex, B.1 bis
GLP: noAcute inhalation toxicity : LC50 (Rat): > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: noAcute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
GLP: no**Skin corrosion/irritation****Product:**

Result: irritating

Skin corrosion/irritation

Causes skin irritation.

Components:**Benzene, methyl-; Toluene:**Species: Rabbit
Method: Regulation (EC) No. 440/2008, Annex, B.4
Result: Irritating to skin.**Serious eye damage/eye irritation****Components:****2-Propanone; Acetone:**Species: Rabbit
Result: Eye irritation
Exposure time: 24 h
Assessment: Irritating to eyes.
Method: Draize Test**Serious eye damage/eye irritation****2-Butanone; Methyl ethyl ketone:**

Species: Rabbit

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

Result: irritating
Method: OECD Test Guideline 405

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Benzene, methyl-; Toluene:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation

Skin sensitisation: Based on available data, the classification criteria are not met.

Components:**Benzene, methyl-; Toluene:**

Species: Guinea pig
Method: Regulation (EC) No. 440/2008, Annex, B.6
Result: Not a skin sensitizer.
GLP: yes

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 (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.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:**Benzene, methyl-; Toluene:**

Reproductive toxicity - : Some evidence of adverse effects on sexual function and
Assessment fertility, and/or on development, based on animal experiments.

STOT - single exposure**Components:****2-Propanone; Acetone:**

Exposure routes: inhalation (vapour)
Target Organs: Nervous system
Assessment: May cause drowsiness or dizziness.

STOT - single exposure**2-Butanone; Methyl ethyl ketone:**

Exposure routes: Inhalation
Target Organs: Central nervous system

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

Assessment: May cause drowsiness or dizziness.

STOT - single exposure

May cause drowsiness or dizziness.

Benzene, methyl-; Toluene:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs (Auditory system) through prolonged or repeated exposure.

Components:

Benzene, methyl-; Toluene:

Target Organs: Auditory system

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

Aspiration toxicity

Components:

Benzene, methyl-; Toluene:

May be fatal if swallowed and enters airways.

Experience with human exposure

Components:

Benzene, methyl-; Toluene:

Skin contact:

Remarks:

Prolonged skin contact may defat the skin and produce dermatitis.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-Butanone; Methyl ethyl ketone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,993 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 308 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,029 mg/l
Exposure time: 96 h

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

Test Type: static test
Method: OECD Test Guideline 201

Benzene, methyl-; Toluene:

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l
End point: mortality
Exposure time: 96 h

Toxicity to daphnia and other : LC50: 3.78 mg/l
aquatic invertebrates
End point: mortality
Exposure time: 48 h

Toxicity to fish (Chronic : NOEC (Oncorhynchus kisutch (coho salmon)): 1.39 mg/l
toxicity)
Exposure time: 40 d

Toxicity to daphnia and other : NOEC (Ceriodaphnia dubia): 0.74 mg/l
aquatic invertebrates
Exposure time: 7 d
(Chronic toxicity)

Toxicity to microorganisms : EC50: 84 mg/l
Exposure time: 24 h

Persistence and degradability

Components:

2-Propanone; Acetone:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %

Benzene, methyl-; Toluene:

Biodegradability : Result: Readily biodegradable.
Remarks: Readily biodegradable, according to appropriate
OECD test.

Bioaccumulative potential

Components:

2-Propanone; Acetone:

Partition coefficient: n- : log Pow: -0.24 (68 °F / 20 °C)
octanol/water

2-Butanone; Methyl ethyl ketone:

Partition coefficient: n- : log Pow: 0.3 (104 °F / 40 °C)
octanol/water
Method: OECD Test Guideline 117

Benzene, methyl-; Toluene:

Partition coefficient: n- : Pow: 2.73 (68 °F / 20 °C)
octanol/water
pH: 7

Mobility in soil

No data available

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

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

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 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 (Special Provision 149): UN1133, Adhesives, 3, II

TDG: UN1133, Adhesives, 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: UN1133, Adhesives, 3, II

Air transport

IATA/ICAO: UN1133, Adhesives, 3, II

SECTION 15. REGULATORY INFORMATION**TSCA list**

TSCA - 5(a) Significant New Use Rule List of : No substances are subject to a
Chemicals Significant New Use Rule.

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

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

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 any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Reproductive toxicity
Skin corrosion or irritation
Serious eye damage or eye irritation
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:

| | | |
|-------------------|----------|---------|
| Benzene, methyl-; | 108-88-3 | 1 - 5 % |
| Toluene | | |

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

| | | |
|-------------------|----------|---------|
| Benzene, methyl-; | 108-88-3 | 1 - 5 % |
| Toluene | | |

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):

| | | |
|---------------------------------|----------|-----------|
| 2-Propanone; Acetone | 67-64-1 | 60 - 80 % |
| 2-Butanone; Methyl ethyl ketone | 78-93-3 | 5 - 10 % |
| Benzene, methyl-; | 108-88-3 | 1 - 5 % |
| Toluene | | |

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including Benzene, methyl-; Toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to 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

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

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 07/02/2024

Full text of other abbreviations

JM PVC Membrane Adhesive (Low VOC)

Version 3.0

Revision Date 07/02/2024

Print Date 07/02/2024

| | | |
|-------------------|---|---|
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH BEI | : | ACGIH - Biological Exposure Indices (BEI) |
| CA AB OEL | : | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| CA BC OEL | : | Canada. British Columbia OEL |
| CA QC OEL | : | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| NIOSH REL | : | USA. NIOSH Recommended Exposure Limits |
| OSHA | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| OSHA | : | USA. Occupational Exposure Limits (OSHA) - Table Z-2 |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| ACGIH / STEL | : | Short-term exposure limit |
| CA AB OEL / TWA | : | 8-hour Occupational exposure limit |
| CA AB OEL / STEL | : | 15-minute occupational exposure limit |
| CA BC OEL / TWA | : | 8-hour time-weighted average |
| CA BC OEL / STEL | : | short-term exposure limit |
| CA QC OEL / TWAEV | : | Time-weighted average exposure value |
| CA QC OEL / STEV | : | Short-term exposure value |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |
| OSHA / TWA | : | 8-hour time weighted average |
| OSHA / TWA | : | 8-hour time weighted average |
| OSHA / CEIL | : | Acceptable ceiling concentration |
| OSHA / Peak | : | Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration,

JM PVC Membrane Adhesive (Low VOC)

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Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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