

Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : JM TPO Water Based Membrane Adhesive

Manufacturer or supplier's details

Company : Johns Manville Address : P.O. Box 5108

Denver, CO USA 80127

Telephone : +1-303-978-2000

Emergency telephone : +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 : +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)

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

P280 Wear protective gloves/ eye protection/ face protection.

Response:

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

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

attention.

P362 Take off contaminated clothing and wash before reuse.

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

Chemical nature

Adhesives and/or sealants

Hazardous components

Chemical name	CAS-No.	Concentration (%)
2-propenoic acid, polymer with butyl 2-propenoate and 2-propenenitrile	25686-45-7	>= 30 - < 60
rubber, natural	9006-04-6	>= 30 - < 60
2-dimethylaminoethanol	108-01-0	>= 1 - < 5

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

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.

Call a physician if irritation develops or persists.

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.



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

> Never give anything by mouth to an unconscious person. If symptoms persist, call a physician or Poison Control Centre

immediately.

Most important symptoms and effects, both acute and

delaved

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Water spray

Carbon dioxide (CO2)

Foam Dry chemical Halons

Unsuitable extinguishing

media

Water spray jet

Hazardous combustion

products

carbon oxides nitrogen oxides

Ammonia

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Further information Standard procedure for chemical fires.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas.

Refer to protective measures listed in sections 7 and 8.

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

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.

Advice on safe handling For personal protection see section 8.

> US/EN 3/11



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

Smoking, eating and drinking should be prohibited in the

application area.

Conditions for safe storage : Perishable if frozen.

Materials to avoid : No materials to be especially mentioned.

Storage period : 12 Months

Further information on

storage stability

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
rubber, natural	9006-04-6	TWA (inhalable fraction)	0.0001 mg/m³ (inhalable allergenic proteins)	ACGIH

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Material : Protective 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.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Written instructions for handling must be available at the work

place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

Colour : light blue

Odour : slight, ammoniacal

Odour Threshold : No data available

pH : 10 - 11

Melting point/freezing point : ca. 0 °C

Boiling point/boiling range : 100 °C

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 0.99 g/cm³

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

Viscosity, dynamic : 10,000 - 15,000 mPa.s

Viscosity, kinematic : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous : Stable under recommended storage conditions.



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

reactions No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute toxicity

Components:

2-dimethylaminoethanol:

Acute oral toxicity : LD50 (Rat, male and female): 1,182.7 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): 1,641 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: no

Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity : LD50 (Rabbit, male): 1,219 mg/kg

Method: OECD Test Guideline 402

GLP: no

Skin corrosion/irritation

Components:

2-propenoic acid, polymer with butyl 2-propenoate and 2-propenenitrile:

Result: irritating

Skin corrosion/irritation 2-dimethylaminoethanol:



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes to 1 hour of exposure

GLP: yes

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result: irritating

Serious eye damage/eye irritation

Components:

2-propenoic acid, polymer with butyl 2-propenoate and 2-propenenitrile:

Result: irritating

Serious eye damage/eye irritation

2-dimethylaminoethanol:

Species: Rabbit

Result: Irreversible effects on the eye Method: OECD Test Guideline 405

GLP: no

Respiratory sensitisation: Not classified based on available information.

Respiratory or skin sensitisation

Components:

rubber, natural:

Exposure routes: Skin contact

Result: Probability or evidence of skin sensitisation in humans

Remarks: largely based on human evidence

Respiratory or skin sensitisation

2-dimethylaminoethanol:

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.

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).

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.



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

STOT - single exposure

Components:

2-dimethylaminoethanol: Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:

2-dimethylaminoethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 146.63 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412

GLP: no

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 98.37 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: Regulation (EC) No. 440/2008, Annex, C.2

GLP: no

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 66.08 mg/l

Exposure time: 72 h Test Type: static test

Toxicity to fish (Chronic

toxicity)

Chronic Toxicity Value: 239.187 mg/l

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

Toxicity to daphnia and other : Chronic Toxicity Value (Daphnia sp. (water flea)): 7.253 mg/l



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

aquatic invertebrates (Chronic toxicity)

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

Persistence and degradability

Components:

2-dimethylaminoethanol:

Biodegradability : aerobic

Concentration: 100 mg/l Result: Readily biodegradable. Biodegradation: 60.5 % Exposure time: 14 d

Method: OECD Test Guideline 301C

Bioaccumulative potential

Components:

2-dimethylaminoethanol:

Partition coefficient: n-

octanol/water

: log Pow: -0.55 (23 °C)

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 +

В).

Additional ecological

information

No data available

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 : Packaging that is not properly emptied must be disposed of as

the unused product.



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

SECTION 14. TRANSPORT INFORMATION

International transport regulations

Land transport

USDOT: Not classified as a dangerous good under transport regulations TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

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.

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 : Respiratory or skin sensitisation

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

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 112 (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).



Version 4.1 Revision Date 04/27/2020 Print Date 04/27/2020

California Prop. 65

This product does not require a warning under the California Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

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

TSCA : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 04/27/2020

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.