

Section 1 - Product and Company Identification

Hazard Label CAUTION

Company InformationJohns Manville
Insulation Systems
P.O. Box 5108
Denver, CO 80127 USATelephone: 303-978-2000 8:00AM-5:00PM M-F
Internet Address: <http://www.jm.com>
Emergency: 800-424-9300 (Chemtrec, In English)

Trade Names: JM IB Coating

Section 2 - Hazards Identification**Inhalation**

Irritation (itching) or redness may occur.

Skin

Irritation (itching) or redness may occur.

Ingestion

This product is not intended to be ingested or eaten under normal conditions of use. If ingested, seek medical attention.

Eyes

Irritation (itching) or redness may occur.

Primary Routes of Entry (Exposure)

Inhalation, skin, and eye contact.

Target Organs

Nose (nasal passages), throat, lungs, skin, eyes

Medical Conditions Aggravated by Exposure

Pre-existing chronic respiratory, skin, or eye diseases or conditions.

Section 3 - Composition/Information on Ingredients

CAS #	Component	Percent
126-58-9	1,3-Propanediol, 2,2'-[oxybis(methylene)]	7-13
25067-01-0	Vinyl acetate - Butyl acrylate copolymer	5-10
13463-67-7	Titanium dioxide	1-5
Not Available	Polyvinyl Chloride Polymer	>1
108-78-1	Melamine	>1
68333-79-9	Polyphosphoric acids, ammonium salts	>1
7732-18-5	Water	>1
14808-60-7	Crystalline silica	<0.1
108-05-4	Vinyl acetate	<0.1
75-07-0	Acetaldehyde	<0.1

General Product Description

Ivory liquid with mild amine odor.

Section 4 - First Aid Measures**First Aid: Inhalation**

Remove to fresh air. If symptoms persist contact a physician.

First Aid: Skin

Remove contaminated clothing. Wash exposed areas with soap and water. If irritation develops or persists, seek medical attention. Launder contaminated clothing before reuse.

First Aid: Eyes

Flush eyes with large amounts of water until irritation subsides. If irritation persists, seek medical attention.

Section 6 - Accidental Release Measures**Containment Procedures**

Remove all sources of ignition. Evacuate and ventilate spill area. Dam spill area with sand, earth, or other suitable absorbent. Prevent entry of material into sewers, other water sources, or land areas. Wear full protective clothing and respiratory protection during clean-up as required to maintain exposures below the applicable exposure limit. Shovel absorbed material into containers in well-ventilated area.

Clean-Up Procedures

Place in closable container for disposal.

Section 7 - Handling and Storage**Handling Procedures**

Use protective equipment as described in Section 8 of this safety data sheet when handling uncontained material. Handle in accordance with good industrial hygiene and safety practices.

Storage Procedures

Warehouse storage should be in accordance with package directions, if any. Product should be kept in a cool and dry area in original packaging. Do not freeze.

Section 8 - Exposure Controls / Personal Protection**Exposure Guidelines****A: General Product Information**

Protective equipment should be provided as necessary to prevent inhalation of vapors, prolonged skin contact, and to keep exposure levels below the applicable exposure limits.

B: Component Exposure Limits**Titanium dioxide (13463-67-7)**

OSHA: 15 mg/m³ TWA (total dust)

10 mg/m³ TWA (total dust)

ACGIH: 10 mg/m³ TWA

Acetaldehyde (75-07-0)

OSHA: 200 ppm TWA; 360 mg/m³ TWA

100 ppm TWA; 180 mg/m³ TWA

ACGIH: 25 ppm Ceiling

Vinyl acetate (108-05-4)

OSHA: 10 ppm TWA; 30 mg/m³ TWA

ACGIH: 10 ppm TWA

15 ppm STEL

Crystalline silica (14808-60-7)

OSHA: 0.1 mg/m³ TWA (respirable dust)

((250)/(%SiO₂ + 5) mppcf TWA (respirable)); ((10)/(%SiO₂ + 2) mg/m³ TWA (respirable));

((30)/(%SiO₂ + 2) mg/m³ TWA (total dust))

ACGIH: 0.025 mg/m³ TWA (respirable fraction)

PERSONAL PROTECTIVE EQUIPMENT**Personal Protective Equipment: Eyes/Face**

Safety glasses with side shields or chemical goggles are recommended.

Personal Protective Equipment: Skin

Impervious gloves such as nitrile rubber should be used to help prevent excessive skin contact.

Personal Protective Equipment: Respiratory

A NIOSH approved respirator must be used if vapor concentrations exceed exposure limits.

Ventilation

Local exhaust or general dilution ventilation may be required to maintain exposures below the applicable exposure limits. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

Section 9 - Physical & Chemical Properties

Appearance:	Ivory liquid	Odor:	Mild amine odor
Physical State:	liquid	Specific Gravity:	1.31
Vapor Pressure:	17 mmHg @ 20 °C (68 °F)		
Boiling Point:	100 °C (212 °F)		

Section 10 - Stability & Reactivity Information**Stability**

These products are not reactive.

Hazardous Decomposition

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information**Acute Toxicity****A: General Product Information**

Vapors from this product may cause eye, respiratory and skin irritation,

B: Component Analysis - LD50/LC50**Titanium dioxide (13463-67-7)**

Oral LD50 Rat: >10000 mg/kg

Melamine (108-78-1)

Oral LD50 Rat: 3161 mg/kg; Dermal LD50 Rabbit:>1000 mg/kg

Polyphosphoric acids, ammonium salts (68333-79-9)

Oral LD50 Rat: 4740 mg/kg

Water (7732-18-5)

Oral LD50 Rat: >90 mL/kg

Acetaldehyde (75-07-0)

Oral LD50 Rat: 1930 mg/kg

Vinyl acetate (108-05-4)

Inhalation LC50 Rat: 11.4 mg/L/4H; Inhalation LC50 Rat:3200 ppm/4H; Oral LD50 Rat:2920 mg/kg; Dermal LD50 Rabbit:2320 mg/kg

Crystalline silica (14808-60-7)

Oral LD50 Rat: 500 mg/kg

Component Carcinogenicity**Titanium dioxide (13463-67-7)**

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Group 2B – Possibly Carcinogenic to Humans (IARC Monograph 93 [in preparation], Monograph 47 [1989])

Melamine (108-78-1)

IARC: Group 3 – Not Classifiable (IARC Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data), Supplement 7 [1987])

Acetaldehyde (75-07-0)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Group 2B – Possibly Carcinogenic to Humans (IARC Monograph 71 [1999], Supplement 7 [1987], Monograph 36 [1985])

Vinyl acetate (108-05-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC: Group 2B – Possibly Carcinogenic to Humans (IARC Monograph 63 [1995], Supplement 7 [1987])

Crystalline silica (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen
NTP: Known Human Carcinogen (Select Carcinogen)
IARC: Group 1 – Known Human Carcinogen (IARC Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources))

Section 12 - Ecological Information**Ecotoxicity****A: General Product Information**

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity**Melamine (108-78-1)**

96 Hr LC50 Poecilia reticulata: >3000 mg/L
96 Hr EC50 Scenedesmus pannonicus: 940 mg/L
48 Hr EC50 water flea: >2000 mg/L

Polyphosphoric acids, ammonium salts (68333-79-9)

96 Hr LC50 Brachydanio rerio: >500 mg/L [static]

Acetaldehyde (75-07-0)

96 Hr LC50 Pimephales promelas: 28.0-34.0 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 53 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 1.8-2.4 mg/L [static]; 96 Hr LC50 Pimephales promelas: 39.8-46.8 mg/L [static]
120 Hr EC50 Nitzschia linearis: 237-249 mg/L
48 Hr EC50 water flea: 9000 mg/L; 48 Hr EC50 Daphnia magna: 48.3 mg/L

Vinyl acetate (108-05-4)

96 Hr LC50 Pimephales promelas: 14 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 15.04-21.54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 26.1-36.63 mg/L [static]
24 Hr EC50 water flea: 52.0 mg/L

Section 13 - Disposal Considerations**US EPA Waste Number & Descriptions****A: General Product Information**

This product is not expected to be a hazardous waste when it is disposed of according to the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Product characterization after use is recommended to ensure proper disposal under federal and/or state requirements.

B: Component Waste Numbers**Acetaldehyde (75-07-0)**

RCRA: waste number U001 (Ignitable waste)

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14 - Transport Information**International Transport Regulations**

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

Section 15 - Regulatory Information
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US Federal Regulations**A: General Product Information**

SARA 311 Status. The following SARA 311 designations apply to this product: Immediate (acute) health hazard. Delayed (chronic) health hazard.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Acetaldehyde (75-07-0)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Vinyl acetate (108-05-4)

SARA 302: 1000 lb TPQ

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Titanium dioxide	13463-67-7	No	No	Yes	Yes	Yes	Yes
Melamine	108-78-1	No	No	Yes	No	No	Yes
Acetaldehyde	75-07-0	Yes	No	Yes	Yes	Yes	Yes
Vinyl acetate	108-05-4	Yes	No	Yes	Yes	Yes	Yes
Crystalline silica	14808-60-7	No	No	Yes	Yes	Yes	Yes

WARNING: This product contains a substance known to the state of California to cause cancer:

Component	CAS #
Acetaldehyde	75-07-0
Crystalline silica	14808-60-7
Formaldehyde (trace)	50-00-0
Ethylene Oxide (trace)	75-21-8
Arsenic (trace)	7440-38-2
Nickel (trace)	7440-02-0
1,4 Dioxane (trace)	123-91-1

WARNING: Using this product will expose you to a chemical known to the State of California to cause birth defects or other reproductive harm

Component	CAS #
Ethylene Oxide (trace)	75-21-8

TSCA Status

This product and its components are listed on the TSCA 8(b) inventory.

None of the components listed in this product are listed on the TSCA Export Notification 12(b) list.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Melamine	108-78-1	1 %

WHMIS Classification

Controlled Product Classification: D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. This SDS contains all the information required by the Controlled Products Regulations.

Section 16 - Other Information

Other Information

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The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Date	MSDS #	Reason
03/31/10	1095-1.0000	New JM MSDS for coating
04/08/10	1095-1.0001	Updated trade name.

End of Sheet 1095