

Section 1 - Product and Company Identification**Hazard Label** No label required**Company Information**Johns Manville
Roofing 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 (Chemtec, In English)**Trade Names:**

JM PVC 50 Membrane	JM PVC Heavy-Duty Walkpad	JM PVC Universal Corners
JM PVC 60 Membrane	JM PVC Penetration Pan	JM PVC T-Joint Patch
JM PVC 80 Membrane	JM PVC Profile	JM PVC Type R Tie-In Membrane
JM PVC Detail Membrane	JM PVC Profile Spine	JM PVC Walkpad
JM PVC Detail Strip	JM PVC Smooth Pipe Boots	

Use: These products are designed for use in mechanically fastened and adhered roofing applications.**Section 2 - Hazards Identification****Emergency Overview**

Under normal conditions of use and handling, this product is not expected to create any health or safety hazards.

Inhalation

Not expected under normal conditions of use. However, irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

Skin

Not expected under normal conditions of use.

Ingestion

This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

Eyes

Not expected under normal conditions of use.

Section 3 - Composition/Information on Ingredients

CAS #	Component	Percent
Proprietary	Proprietary Ingredients	>99
58-36-6	10,10'-Oxybisphenoxarsine	<0.05

Component Information

Under normal conditions of use and handling, this product is not expected to create any health or safety hazards. Processing of this product can result in formation of vapors or fumes that may be irritating to eyes, skin, & respiratory system.

General Product Description

Solid, composite plastic structures. Very slight odor.

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

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

First Aid: Skin

Wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.

First Aid: Ingestion

Product is not intended to be ingested or eaten. If this product is ingested, do not induce vomiting and seek medical attention immediately.

First Aid: Eyes

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

Section 5 - Fire Fighting Measures

Flash Point: Not applicable
Upper Flammable Limit (UFL): Not applicable
Auto Ignition: Not determined
Rate of Burning: Not applicable

Method Used: Not determined
Lower Flammable Limit (LFL): Not applicable
Flammability Classification: Not determined

General Fire Hazards

There is no potential for spontaneous fire or explosion. If exposed to fire, product may melt and drops of molten product may cause burns.

Extinguishing Media

Carbon dioxide (CO₂), dry chemical.

Fire Fighting Equipment/Instructions

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases.

Section 6 - Accidental Release Measures**Clean-Up Procedures**

Pick up large pieces. Vacuum dusts.

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. Material should be kept clean, dry, and in original packaging.

Section 8 - Exposure Controls / Personal Protection**A: Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

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

None required

Personal Protective Equipment: General

Protective equipment should be provided as necessary to prevent irritation of the throat, eyes, and skin, and to keep exposures below the applicable exposure limits identified in Section 8.

Section 9 - Physical & Chemical Properties

Appearance:	Solid, composite plastic structures.	Odor:	Very slight odor
Physical State:	Solid	pH:	
Vapor Pressure:	Not applicable	Vapor Density:	Not applicable
Solubility (H₂O):	Insoluble	Melting Point:	>320°F
Solids Content	100%	Specific Gravity:	1.2
		VOC:	Not applicable

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

These products are not reactive.

Hazardous Decomposition

This product will decompose at temperatures >300°C. May form carbon dioxide, carbon monoxide, halogenated hydrocarbons, nitrogen oxides, various hydrocarbons.

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

10,10'-Oxybisphenoxarsine (58-36-6)

Oral LD50 Rat: 40 mg/kg

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

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

No EPA Waste Numbers are applicable for this product's components.

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

US Federal Regulations

A: General Product Information

SARA 311/312: This product is not classified as hazardous under SARA 311/312.

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).

10,10'-Oxybisphenoxarsine (58-36-6)

SARA 302: 500 lb lower threshold TPQ; 10000 lb upper threshold TPQ

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

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

Cadmium (from analysis) 1120 ppm

Lead (from analysis) 23 ppm

Nickel (from analysis) <10 ppm

B: 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
10,10'-Oxybisphenoxarsine	58-36-6	No	No	Yes	No	Yes	Yes

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.

International Regulations**A: General Product Information**

These products are considered articles under both U.S. and international product regulations and as such, these products do not require registration or notification on the various country-specific inventories.

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

WHMIS Classification

This is not a WHMIS controlled product. 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

Prepared for:
Johns Manville
Roofing Systems
P. O. Box 5108
Denver, CO USA 80217-5108

Prepared by:
Johns Manville Technical Center
P.O. Box 625005
Littleton, CO USA 80162-5005

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
02/02/06	3227-1.0000	New MSDS for new PVC products
07/12/07	3227-1.0001	Regulatory update. Minor edits.
01/23/09	3227-1.0002	Removed Inside Corners from trade names. Updated SDS to GHS format.
10/08/09	3227-1.0003	Addition of California Prop 65 metals from analysis in Section 15.
3/1/2011	3227-1.0004	Updated Trade Names.
11/30/12	3227-1.0005	Updated Trade Names.

End of Sheet 3227