



## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

Product identifier used on the label:

**Product Name:** Westco PDM (HVA-2)  
**SDS Manufacturer Number:** 82

Other means of identification:

**Product Description:** Westco PDM (HVA-2) is a rubber accelerator used in the manufacture of rubber goods.  
**Synonyms:** 1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione; N,N'-m-Phenylenedimaleimide; N,N'-1,3-Phenylene bismaleimide

Recommended use of the chemical and restrictions on use:

**Product Use/Restriction:** Used for rubber goods manufacture.

Chemical distributor, or other responsible party Name, address, and telephone number:

**Distributor Name:** Western Reserve Chemical Corporation  
**Address:** 4837 Darrow Road  
Stow, OH 44224  
USA  
**General Phone Number:** 330 650 2244  
**General Fax Number:** 330 650 2255

Emergency phone number::

**Emergency Phone Number:** Chemtrec 1 800 424 9300 USA  
**Website:** www.wrchem.com

### SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

**GHS Pictograms:**



**Signal Word:** DANGER!

**GHS Class:** \* Acute Toxicity Oral, Category 4.  
\* Acute Toxicity Dermal, Category 3.  
Acute Toxicity Inhalation, Category 2

**Hazard Statements:** \* Harmful if swallowed.  
\* Harmful in contact with skin.  
\* Fatal if inhaled.

**Precautionary Statements:** Wash thoroughly after handling  
Do not eat, drink or smoke when using this product  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
Rinse mouth.  
Do not get in eyes, on skin, or on clothing.  
Remove/Take off immediately all contaminated clothing  
IF ON SKIN: Gently wash with plenty of soap and water.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear respiratory protection.  
Store in a well-ventilated place. Keep container tightly closed.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Wash contaminated clothing before reuse.  
: Avoid breathing dust/fume/gas/mist/vapours/spray.  
Use only outdoors or in a well-ventilated area.  
IF INHALED, Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Store locked up.  
Dispose of contents/container in accordance with local/ regional/ national/ international Regulations.  
IF ON SKIN: Wash with plenty of soap and water.

Hazards not otherwise classified that have been identified during the classification process:

**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.

**Potential Health Effects:** May damage the unborn child

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation. May be harmful if absorbed through the skin.

**Inhalation:** May be fatal if inhaled. Causes respiratory tract irritation.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
N,N'-m-Phenylenedimaleimide	3006-93-7	>97 %	

### SECTION 4 : FIRST AID MEASURES

#### Description of necessary measures:

<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
<b>Skin Contact:</b>	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Inhalation:</b>	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Ingestion:</b>	Get medical aid immediately. Wash mouth out with water.

#### Most important symptoms/effects, acute and delayed:

<b>Other First Aid:</b>	If skin irritation or rash occurs, get medical advice/attention.
<b>Notes :</b>	In all cases of doubt, or when symptoms persist, seek medical attention.

### SECTION 5 : FIRE FIGHTING MEASURES

#### Suitable and unsuitable extinguishing media:

<b>Suitable Extinguishing Media:</b>	Water fog, carbon dioxide, foam, dry chemical.
<b>Unsuitable extinguishing media:</b>	Not available.
<b>Unusual Fire Hazards:</b>	Toxic emissions may result if product is involved in a fire. Fire produces highly toxic sulfur dioxide gas

#### Special protective equipment and precautions for fire-fighters:

<b>Protective Equipment:</b>	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire Fighting Instructions:</b>	Clear area of all non-emergency personnel. Do not enter confined fire space without full bunker gear including a positive pressure self-contained breathing apparatus. Isolate fuel supply from fire.

### SECTION 6 : ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

<b>Personal Precautions:</b>	For non-emergency personnel: Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapor or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection. For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.
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#### Environmental precautions:

<b>Environmental Precautions:</b>	Avoid disposing into drainage/sewer system or directly into the aquatic environment. keeping away from drains, surface-and ground-water and soil.
<b>Methods for cleanup:</b>	Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Scoop up and remove. Do NOT spread spilled product with water.

#### Reference to other sections:

<b>Other Precautions:</b>	Wet clean or vacuum up solids. Don't use a brush or compressed air for cleaning surfaces or clothing. Clear spills immediately.
<b>Notes :</b>	See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

### SECTION 7 : HANDLING and STORAGE

#### Precautions for safe handling:

<b>Handling:</b>	Do not breathe dusts/vapor.
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Handle in well ventilated areas.  
Eliminate all sources of ignition, and do not generate flames or sparks.  
Take precautionary measures against static discharges.

**Hygiene Practices:**

Do not eat, drink and smoke in work areas.  
Wash hands after use.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Good hygienic practices should be observed.  
Work clothes should be washed separately at the end of each work day.  
Disposable clothing should be discarded with material.

Conditions for safe storage, including any incompatibilities:

**Storage:**

Store closed containers in a cool, dry, well-ventilated area.  
Store away from strong oxidizing materials.  
Avoid exposure to direct sunlight.  
Do not store near Insoluble Sulfur.  
Slowly degrades and releases irritating vapors under warm, humid conditions.

Specific end use(s):

**Work Practices:**

Wash hands and arms frequently. Shower after exposure. Wash work clothes when soiled. Safety showers and eye wash stations should be available. Use this product with adequate ventilation. Handle in accordance with good industrial hygiene and safety practices.

**Notes :**

Do not store this product near insoluble sulfur.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

**Guideline ACGIH:**

ACGIH TLV/8-Hr TWA = 10 mg/m<sup>3</sup>.  
Cyclohexylamine: ACGIH TLV/8Hr TWA = 10 ppm.

**Guideline OSHA:**

OSHA PEL/8Hr-TWA = 15 mg/m<sup>3</sup> (Total Dust).  
OSHA PEL/8-Hr TWA = 05mg/m<sup>3</sup> (Respirable Dust).

**Guideline NIOSH:**

NIOSH REL/8Hr TWA = 10 ppm.

Appropriate engineering controls:

**Engineering Controls:**

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product. Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with the applicable air pollutions control regulations. Eliminate ignition sources.

Individual protection measures:

**Eye/Face Protection:**

Wear full face respirator or appropriate goggles to prevent eye exposure.

**Skin Protection Description:**

Wear suitable protective clothing to prevent skin exposure.

**Hand Protection Description:**

Wear appropriate gloves to prevent skin exposure.

**Respiratory Protection:**

Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

**PPE Pictograms:**



## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Crystalline powder
Color:	White to yellow.
Odor:	Slight inherent odor.
Odor Threshold:	Not available.
Boiling Point:	Not available.
Melting Point:	198-204 deg C
Density:	Not determined.
Solubility:	Water solubility (g/l) at 20°C : Slightly soluble
Vapor Density:	Not available.
Vapor Pressure:	negligible.
Percent Volatile:	<0.5%
pH:	Not available.
Molecular Formula:	C <sub>14</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	268.23
Viscosity:	Not available.
Flash Point:	~252°C

## SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures. Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Stable if protected from heat and exposure to air. Loses potency with time Protect from moisture
<b><u>Possibility of hazardous reactions:</u></b>	
<b>Hazardous Polymerization:</b>	Will not occur.
<b><u>Conditions To Avoid:</u></b>	
<b>Conditions to Avoid:</b>	Keep away from heat, sparks and flame.
<b><u>Incompatible Materials:</u></b>	
<b>Incompatible Materials:</b>	Strong oxidizing agents, reducing agents, contact with acids. Avoid contamination of product with small amounts of water. Do not store near Insoluble Sulfur
<b><u>Hazardous Decomposition Products:</u></b>	
<b>Special Decomposition Products:</b>	Carbon monoxide Oxides of nitrogen Oxides of sulfur Amines

## SECTION 11 : TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

<b>Acute Toxicity:</b>	Inhalation, rat: LC50 = 55 mg/m <sup>3</sup> /4H; Oral, mouse: LD50 = 250 mg/kg; Oral, rat: LD50 = 1370 mg/kg.
<b>Eye:</b>	Slightly irritating to eyes but not sufficient for classification.
<b>Skin:</b>	Slightly irritating to skin but not sufficient for classification.
<b>Sensitization:</b>	May cause an allergic skin reaction.
<b>Carcinogenicity:</b>	Not classified
<b>Mutagenicity:</b>	Not classified.
<b>Reproductive Toxicity:</b>	Not classified

## SECTION 12 : ECOLOGICAL INFORMATION

### Ecotoxicity:

<b>Ecotoxicity:</b>	Acute toxicity to fish: LC50 >100 mg/l/96h (Pimephales promelas); Acute toxicity to daphnia: EC50 = 31.6 mg/l/48h (Daphnia magna); Acute toxicity to algae: EC50 = 10,000 mg/l/48h (Daphnia magna);
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### Bioaccumulative potential:

<b>Bioaccumulation:</b>	Not available.
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### Mobility in soil:

<b>Mobility In Environmental Media:</b>	Not available.
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## SECTION 13 : DISPOSAL CONSIDERATIONS

### Description of waste:

<b>Waste Disposal:</b>	Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste. According to local regulations, Federal and official regulations.
<b>Contaminated Packaging:</b>	If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations. .

## SECTION 14 : TRANSPORT INFORMATION

<b>DOT Shipping Name:</b>	TOXIC SOLID, ORGANIC, N.O.S. (HVA-2)
<b>DOT UN Number:</b>	UN2811
<b>DOT Hazard Class:</b>	6.1
<b>DOT Packing Group:</b>	III
<b>DOT Pictograms:</b>	



<b>IATA Shipping Name:</b>	TOXIC SOLID, ORGANIC, N. O.S. (HVA-2)
<b>IATA UN Number:</b>	UN2811
<b>IATA Hazard Class:</b>	6.1
<b>IATA Packing Group:</b>	III

**IATA Pictograms:**


**IMDG UN Number :** UN2811  
**IMDG Shipping Name :** TOXIC SOLID, ORGANIC, N. O.S. (HVA-2)  
**IMDG Hazard Class :** 6.1  
**IMDG Packing Group :** III  
**ADR Shipping Name :** TOXIC SOLID, ORGANIC, N. O.S. (HVA-2)  
**ADR Hazard Class:** 6.1  
**ADR Packing Group :** III  
**RID UN Number :** UN2811  
**RID Shipping Name :** TOXIC SOLID, ORGANIC, N. O.S. (HVA-2)  
**RID Hazard Class :** 6.1  
**RID Packing Group :** III  
**ICAO UN Number :** UN2811  
**ICAO Shipping Name:** TOXIC SOLID, ORGANIC, N. O.S. (HVA-2)  
**ICAO Hazard Class :** 6.1  
**ICAO Packing Group :** III

**SECTION 15 : REGULATORY INFORMATION**
Safety, health and environmental regulations specific for the product:

**TSCA Inventory Status:** CAS# 3006-93-7 is listed on the TSCA inventory.  
**SARA:** SARA Title III: 302: None. 313: None 311/312: Hazard Categories: Immediate Delayed Fire  
**State Regulations:** CT, FL, IL, LA, MA, MI, MN, NJ, NY, PA (RTK), RI – Not listed  
**Risk Phrases:**

- \* R22 - Harmful if swallowed
- \* R24 - Toxic in contact with skin..
- \* R26 - Very toxic by inhalation.
- \* R36 - Irritating to eyes.
- \* R37 - Irritating to respiratory system.
- \* R38 - Irritating to skin.

**Safety Phrase:**

- \* S27 - Take off immediately all contaminated clothing.
- \* S28 - After contact with skin, wash immediately with plenty of water.
- \* S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
- \* S38 - In case of insufficient ventilation, wear suitable respiratory equipment.
- \* S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).


**SECTION 16 : ADDITIONAL INFORMATION**
HMIS Ratings:

**HMIS Health Hazard:** 3  
**HMIS Fire Hazard:** 0  
**HMIS Reactivity:** 0  
**HMIS Personal Protection:** X

Health Hazard	3
Fire Hazard	0
Reactivity	0
Personal Protection	X

**SDS Creation Date:** September 09, 2015

**SDS Revision Date:** September 09, 2015

**Notes :** Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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