

# Accelerator PDM (MPBM)

| 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION                                                                                  |                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Manufacturer<br>Willing New Materials Technology Co., Ltd.<br>Chemical Industry-Intensive Area<br>Puyang, Henan, China 457163 | Emergency Contact<br>Chemtrec: 1-800-424-9300 (USA)<br>1-330-542-8400 (outside USA)                          |
| Trade Name(s): Accelerator PDM (MPBM), HVA-2                                                                                  | Chemical Name: N,N-m-phenylene bismaleimide, 1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione                    |
| Relevant identified uses of the substance or mixture and uses advised against: No further information available               | Application of the substance/the preparation: Used as vulcanization accelerator in rubber goods manufacture. |
| Issued By: Sovereign Chemical Company (Distributor)<br>4040 Embassy Parkway, Suite 190<br>Akron, Ohio 44333                   | Date of Issue: July 1, 2026                                                                                  |

## 2. HAZARDS IDENTIFICATION

*Classification of the substance or mixture*

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012), Regulation (EC) No 1272/2008, 1907/2006/EC (REACH), and GHS.

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard Pictograms (CLP)        | :  GHS06,  GHS09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Signal Word                    | : Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hazard statements (CLP)        | : <ul style="list-style-type: none"> <li>H302 – Harmful if swallowed, Category 4</li> <li>H317 – May cause an allergic skin reaction, Category 1</li> <li>H330 – Fatal if inhaled, Category 2</li> <li>H411 – Toxic to aquatic life with long last effects, Category 2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Precautionary statements (CLP) | : <ul style="list-style-type: none"> <li>P264 - Wash hands thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P301 + P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.</li> <li>P330 – Rinse mouth.</li> <li>P501 - Dispose of contents/ container to an approved waste center.</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 - Wear protective clothing, eye protection, face protection, protective gloves.</li> <li>P302 + P352 - IF ON SKIN: wash with plenty of soap and water.</li> <li>P333 + P313 - IF SKIN irritation or rash occurs: Get medical advice/attention.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapors/spray.</li> </ul> |

P271 - Use only outdoors or in a well-ventilated area.  
P284 - Wear respiratory protection.  
P304 + P340- IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
P310 - Immediately call a POISON CENTER or doctor/physician  
P403 +P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 – Store locked up.  
P273- Avoid release to the environment.  
P391 - Collect spillage. Hazardous to the aquatic environment.  
Other : This substance does not meet the PBT or vPvB criteria of REACH regulation, annex XIII

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical Name                | CAS No    | EC No     | Weight % | Classification                                                                                                                                                                                              |
|------------------------------|-----------|-----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N,N-m-phenylene bismaleimide | 3006-93-7 | 221-112-8 | ≥ 98     | H302 – Harmful if swallowed, Category 4<br>H317 – May cause an allergic skin reaction, Category 1<br>H330 – Fatal if inhaled, Category 2<br>H411 – Toxic to aquatic life with long last effects, Category 2 |

### 4. FIRST AID MEASURES

*Description of first aid measures*

General advice: Remove contaminated clothing and shoes. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. In the case of skin irritation or allergic reactions see a physician. In case of accident or unwellness, seek medical advice immediately.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

*Most important symptoms and effects both acute and delayed*

Symptom Effects: Harmful if swallowed. May cause an allergic skin reaction. Fatal if inhaled.

*Indication of any immediate medical attention and special treatment needed*

General: Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

*Extinguishing media*

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Do not use straight streams.

*Special hazards arising from the substance or mixture*

Thermal decomposition: Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon oxides and nitrogen oxides

*Special protective equipment and precautions for firefighters*

*Advice for firefighters:* Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

## 6. ACCIDENTAL RELEASE MEASURES

*Personal precautions, protective equipment and emergency procedures*

General: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

*Environmental precautions*

General: Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

*Methods and material for containment and cleaning up*

General: Sweep up and shovel into suitable containers for disposal.

*Reference to other sections*

General: See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal

## 7. HANDLING AND STORAGE

*Precautions for safe handling*

Protective measures: Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

*Conditions for safe storage, including any incompatibilities*

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.

*Specific end use(s)*

General: Not applicable

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

*Control Parameters*

Occupational exposure limits: Latvia – TWA 1 mg/m<sup>3</sup>

Derived No Effect Level: No information available. No chemical safety assessment has been carried out.

Predicted No Effect Concentration: No information available. No chemical safety assessment has been carried out.

*Exposure controls*

Appropriate engineering controls: Showers. Eyewash stations. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition.

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection:                 | The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                                                                                                                                                                                                                                                             |
| Body protection:                 | Complete suit protecting against chemicals.                                                                                                                                                                                                                                                                                                                                                                                   |
| Respiratory protection:          | Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Thermal hazard:                  | No additional information available.                                                                                                                                                                                                                                                                                                                                                                                          |
| Environmental exposure controls: | Do not allow into any sewer, on the ground or into any body of water.                                                                                                                                                                                                                                                                                                                                                         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Form: Solid powder                        | Melting Point/Melting Range: 198-201°C       |
| Color: Yellow to light brown              | Boiling Point/Boiling Range: 499.3°C         |
| Odor: Odorless                            | Octanol/Water Partition Coefficient: 0.67    |
| Odor threshold: Not determined            | pH Value: Not determined                     |
| Vapor pressure: No data available         | Flash point: 250.7°C                         |
| Density at 25 °C: 1.567 g/cm <sup>3</sup> | Flammability (solid, gaseous): Not flammable |
| Relative density: Not applicable          | Ignition temperature: Not applicable         |
| Particle characteristics: 0.142-79.621 µm | Decomposition temperature: No data available |
| Evaporation rate: No data available       | Oxidizing properties: No data available      |

|                                                                   |                                                                    |
|-------------------------------------------------------------------|--------------------------------------------------------------------|
| Solubility in / Miscibility with water: 1037 mg/L                 | Explosive properties: No data available                            |
| Viscosity<br>Dynamic: Not determined<br>Kinematic: Not determined | Explosion limits<br>Lower: Not applicable<br>Upper: Not applicable |

## 10. STABILITY AND REACTIVITY

### *Reactivity*

No information available.

### *Chemical stability*

Stable under recommended storage conditions.

### *Possibility of hazardous reactions*

No dangerous reactions known under normal conditions of use.

### *Conditions to avoid*

Heat, flames and sparks, and incompatible materials/

### *Incompatible materials*

Strong oxidizing agent.

### *Hazardous decomposition products*

Carbon oxides and nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

### *Information on toxicological effects*

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| General:                           | Not classified                                 |
| Acute toxicity (oral):             | LD50 rat: > 300-2000 mg/kg                     |
| Acute toxicity (inhalation):       | LC50 rat: 0.089 mg/L (0.044 mg/L – 0.256 mg/L) |
| Skin corrosion/irritation:         | No adverse effect observed (not irritating)    |
| Serious eye damage/irritation:     | No adverse effect observed (not irritating).   |
| Respiratory or skin sensitization: | May cause an allergic skin reaction.           |
| Germ cell mutagenicity:            | Not classified                                 |
| Carcinogenicity:                   | Not classified                                 |
| Reproductive toxicity:             | Not classified                                 |
| STOT single exposure:              | Not classified                                 |

|                         |                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STOT multiple exposure: | Not classified                                                                                                                                                                                                                                                                                                                              |
| Aspiration hazard:      | Not classified                                                                                                                                                                                                                                                                                                                              |
| Other information:      | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

## 12. ECOLOGICAL INFORMATION

### *Toxicity*

|                              |                                            |
|------------------------------|--------------------------------------------|
| General:                     | Toxic with long lasting effects.           |
| Acute (short-term) toxicity: | LC50(96h, Fish):10 mg/L                    |
| Acute (short-term) toxicity: | LC50(48h, invertebrates): 31.6 mg/L        |
| Acute (short-term) toxicity: | EC50(72h, Algae/aquatic plants): 55.5 mg/L |
| NOEC                         | Algae: 0.308 mg/L                          |

### *Persistence and degradability*

|              |                                             |
|--------------|---------------------------------------------|
| Information: | Not readily biodegradability. 0% in 28 days |
|--------------|---------------------------------------------|

### *Bioaccumulation potential*

|          |                           |
|----------|---------------------------|
| Log PoW: | No information available. |
|----------|---------------------------|

### *Mobility in soil*

|              |                |
|--------------|----------------|
| Information: | Log Koc - 2.49 |
|--------------|----------------|

### *Results of PBT and vPvB assessment*

|              |                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------|
| Information: | PBT/vPvB assessment information is not available as chemical safety assessment not conducted. |
|--------------|-----------------------------------------------------------------------------------------------|

### *Other adverse effects*

|              |                                                                                                                                                                                                                                                                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Information: | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 13. DISPOSAL CONSIDERATIONS

### *Waste treatment methods*

|                                      |                                                                                                     |
|--------------------------------------|-----------------------------------------------------------------------------------------------------|
| Waste from residues/unused products: | Dispose of contents/container in accordance with licensed collector's sorting instructions.         |
| Contaminated packaging:              | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

## 14. TRANSPORTATION INFORMATION

|                                                                            |                                                              |
|----------------------------------------------------------------------------|--------------------------------------------------------------|
| UN-Number                                                                  |                                                              |
| DOT                                                                        | Not regulated                                                |
| ADR, ADN, IMDG, IATA, RID                                                  | 2811                                                         |
| UN proper shipping name                                                    |                                                              |
| DOT                                                                        | Not regulated                                                |
| ADR, ADN, IMDG, IATA, RID                                                  | Toxic solids, organic, n.o.s. (N,N-m-phenylene bismaleimide) |
| Transport hazard class(es)                                                 |                                                              |
| DOT                                                                        | Not regulated                                                |
| ADR, ADN, IMDG, IATA, RID                                                  | 6.1                                                          |
| Packing group                                                              |                                                              |
| DOT                                                                        | Not regulated                                                |
| ADR, ADN, IMDG, IATA, RID                                                  | III                                                          |
| Environmental hazards                                                      | Marine pollutant                                             |
| Special precautions for user                                               | Not data available                                           |
| Transport in bulk according to Annex II: of MARPOL and the IMO instruments | Not applicable                                               |

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

|                                                                  |            |
|------------------------------------------------------------------|------------|
| SARA Section 355 (extremely hazardous substances)                | Not listed |
| SARA Section 313 (Specific toxic chemical listings)              | Not listed |
| TSCA (Toxic Substances Control Act)                              | Listed     |
| Proposition 65 (California)                                      |            |
| Chemicals known to cause cancer                                  | Not listed |
| Chemicals known to cause reproductive toxicity for females       | Not listed |
| Chemicals known to cause reproductive toxicity for males         | Not listed |
| Chemicals known to cause developmental toxicity                  | Not listed |
| Carcinogenic Categories                                          |            |
| IARC (International Agency for Research on Cancer)               | Not listed |
| TLV (Threshold Limit Value established by ACGIH)                 | Not listed |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | Not listed |



|                                                    |            |
|----------------------------------------------------|------------|
| OSHA (Occupational Safety & Health Administration) | Not listed |
| Canada                                             |            |
| Canadian Domestic Substances List (DSL)            | Listed     |
| Canadian Ingredient Disclosure list (limit 0.1%)   | Not listed |
| Canadian Ingredient Disclosure list (limit 1%)     | Not listed |
| REACH                                              |            |
| REACH Candidate List                               | Not listed |
| REACH XIV List                                     | Not listed |

Chemical Safety Assessment: No chemical safety assessment has been carried out.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.