



# MATERIAL SAFETY DATA SHEET

DAEHEUNG CHEMICAL CO., LTD. [www.dhcbond.com](http://www.dhcbond.com)

PGM

Product Name	PM-04
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## 1. Product and Company Identification

- A. Product Name PM-04
- B. Recommended use of the chemical and restrictions on use
- Recommended use of the chemical This adhesive is used to bond the wood, paper, fiber glass and rock wood, etc. Especially, use for as a water-born primer when pressure-sensitive adhesive PVC film.
  - Restrictions on use of the product Do not use for purposes other than adhesive.
- C. Manufacturer/Supplier/Distributor Information
- Name DAEHEUNG CHEMICAL CO., LTD.
  - Address 68, Sandan-ro 64beon-gil, Pyeongtaek-si, Gyeonggi-do, Korea
  - Emergency phone number 82-31-668-1424

## 2. Hazards identification

- A. Hazard-Risk Classification None
- B. Label elements including precautionary statements
- Symbol Not applicable
  - Signal Word Not applicable
  - Hazard-Risk Statement Not applicable
  - Precautionary Statement Not applicable
- C. Other Hazard-Risk which are not included in the classification criteria (e.g. dust explosion hazard)

	Tackifier	Synthetic emulsion	Water
Health	2	1	0
Fire	1	1	0
Reactivity	0	0	0

## 3. Composition/Information on ingredients

Chemical Name	Other name	CAS number	Content(%)
Synthetic emulsion	-	70857-14-6	50~65
Water	DIHYDROGEN OXIDE	7732-18-5	5~15
Tackifier	Rosin, reaction products with formaldehyde	8050-31-5	10~20
Addition1	Trade Secret	-	0~10
Addition2	Trade Secret	-	1~10

## 4. First aid measures

- A. Eye contact  
Immediately flush eyes with plenty of water for at least 20 minutes.  
Get medical attention if irritation develops or persists.
- B. Skin contact  
For skin contact, wash thoroughly with soap and water for at least 20 minutes.  
  
Remove and isolate contaminated clothing and shoes.  
Completely decontaminate clothing, shoes, and leather goods before reuse.  
  
Get medical attention if irritation develops or persists.
- C. Inhalation  
Seek emergency medical attention.

- |               |   |
|---------------|---|
| C. Inhalation | Move to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.   |
| D. Ingestion  | Do not give an unconscious person anything by mouth.<br>Get medical attention if irritation develops or persists. |

## 5. Fire-Fighting measures

### A. Suitable (and unsuitable) extinguishing media

Small fires : Dry sand, dry chemical, alcohol foam, water spray, normal foam, CO<sub>2</sub> (Suitable extinguishing media)

Large fires : water spray, normal foam (Suitable extinguishing media)  
pulsed infusion (Unsuitable extinguishing media)

### B. hazards arising from the chemical (e.g. nature of any hazardous combustion products)

Containers may explode when heated.

Some of these materials may burn, but most do not ignite readily.

Inhalation of the substance may be harmful.

### C. Special protective equipment and precautions for fire-fighters

Cool containers with water spray until well after the fire is out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

Stay away from the ends of tanks.

Avoid inhalation of material or combustion by-products.

## 6. Accidental release measures

### A. Personal precautions, protective equipment and emergency procedures

No data available

### B. Environmental precautions and protective procedures

Soak up with inert absorbent material(e.g. sand, silica gel, acid binder, universal binder, sawdust).

### C. Methods and materials for containment and cleaning up

Wash contaminated property(e.g. automobiles) quickly before the material dries.

## 7. Handling and storage

### A. Precautions for safe handling

Store at room temperature. (Above 10°C)

After use, Should be sealed to prevent the surface film.

### B. Conditions for safe storage (including any incompatibilities)

Store at room temperature. don't be frozen.

Store in closed containers.

Prevent inoculation with microorganisms. Minimize exposure to air.

## 8. Exposure controls & personal protection

### A. Control parameters (e.g. occupational exposure limit values, biological limit values)

No data available

### B. Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### C. Personal protective equipment

– Respiratory protection

wear suitable respiratory protective equipment.

– Eye protection

Wear chemical safety goggles.

– Hands protection

Use appropriate chemical protective gloves when handling.

– Body protection

Wear protective clothing.

– Hygienic notice

Install wash facilities near the workplace. (10% NaOH)

## 9. Physical and chemical properties

A. Appearance	
Physical state	Viscous liquid
Color	light grey
B. Odour	Synthetic resin odour
C. Odour threshold	No data available
D. pH	6~8
E. Melting point/freezing point	Not Applicable
F. Initial boiling point and boiling range	Above 100 °C
G. Flashing point	Not Applicable
H. Evaporation rate	No data available
I. Flammability(solid, gas)	No data available
J. Upper/lower flammability or explosive limits	Not Applicable
K. Vapor pressure	No data available
L. Solubility	Dispersible in water
M. Vapor density	Above 1.0
N. Relative density	Above 1.0
O Partition coefficient:n-octanol/water	No data available
P. Auto-ignition temperature	Not Applicable
Q. Decomposition temperature	No data available
R. Viscosity	6,000~7,000 cps (25 °C)
S. Formula mass	No data available

## 10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions	Stable under normal conditions  Containers may explode when heated.
B. Conditions to avoid	Avoid the fire, spark, flame, UV, X-RAY and other ignition sources
C. Incompatible materials	CO, CO <sub>2</sub> , and other low molecular weight organic compounds can be created on.

## 11. Toxicological information

A. Information on the likely routes of exposure	No data available
B. Health hazards information	
– Acute toxic	
Oral	
Water	LD50 90000 mg/kg Rat (LD50 > 90 ml/kg (Rat))

## 12. Ecological information

A. Aquatic and terrestrial ecotoxicity	No data available
B. Persistence and degradability	Are not rapidly biodegradable. Among the products still remaining in the environment and can accumulate a small amount of ingredients.
– Persistence	
Water	log Kow -1.38
C. Bioaccumulative potential	
– Bioaccumulative	
Synthetic emulsion	112 ug/L 2.1 hour(s) BCF (Residue) Duckweed (Lemna minor) 60 ug/L.
D. Mobility in soil	No data available
E. Other adverse effects	No data available

### 13. Disposal considerations

- |                        |  |
|------------------------|--|
| A. Disposal method     | Dispose of according to regulations by incineration or sanitary landfill.                                |
| B. Disposal precaution | Incineration CO, CO2 occurs<br>Dispose of according to regulations by incineration or sanitary landfill. |

### 14. Transport information

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|---|--|
| A. UN number  | NOT HAZARDOUS ACCORDING TO IATA-DGR<br>Not regulated as a hazardous material |
| B. UN proper shipping name  | -  |
| C. Transport hazard class:  | -  |
| D. Packing group (if applicable)  | -  |
| E. Marin pollution (yes/no)   | -  |
| F. Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: | -  |
| G. TRANSPORT Notice   | Do not freeze storage and transport at room temperature.                     |

### 15. Regulatory information

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|---|--|
| A. Industrial Safety and Health Act                   | Article 39 (Management, etc. of Harmful Agents)<br>Article 41 (Preparation, Keeping, etc. of Material Safety Data Sheet) |
| B. Toxic Chemical Control Act                         | No data available  |
| C. Dangerous Material Safety Control Act              | No data available  |
| D. Wastes Management Act                              | Designated Wastes  |
| E. Other requirements in domestic and other countries | Not Applicable   |

### 16. Other information

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|--------------------------------------|------------------------------------|
| A. Information source and references | Synthetic emulsion<br>Water<br>NLM |
| B. Issuing date                      | June 10, 2013                      |
| C. Revision number and date          | 2 / January 24, 2017               |
| D. others                            |                                    |