



# MATERIAL SAFETY DATA SHEET

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



Product Name	HM-1004
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## 1. Product and Company Identification

- A. Product Name HM-1004
- B. Recommended use of the chemical Hot melt adhesive for stick
- 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. Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

- Physical hazard Not applicable
- Health hazard Not applicable
- Environment hazard Not applicable

### B. Label elements including precautionary statements

- Symbol / Signal word Not applicable
- Hazard statements Not applicable
- Precautionary statements Not applicable

### C. NFPA Rating

Health : 0                      Water reactivity : 0                      Reactivity : 0                      Flammability : 1

## 3. Composition/Information on ingredients

Ingredients	CAS No.	Conc. (%)
Ethylenevinylacetate copolymer	24937-78-8	55~65
Hydrocarbons, C6-20, polymers, hydrogenated	69430-35-9	35~45
Polyethylene	9002-88-4	0~5

## 4. First aid measures

- A. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- B. In case of skin contact Wash off with soap and plenty of water.
- C. If inhaled If breathed in, move person into fresh air.  
If not breathing, give artificial respiration.
- D. If swallowed Never give anything by mouth to an unconscious person.
- E. Potential health effect May be harmful if swallowed.
- F. Other medical attention. Medical personnel should be aware of the protective measures of the substance.

## 5. Fire-Fighting measures

- A. Flammable properties
- Flash point No flash occurred under 93 °C (Rapid equilibrium method)
  - Autoignition temperature No spontaneous combustion under 250 °C
  - Burning rate < 0.667 mm/s (UN TDG test & criteria - Test N1)

B. Suitable extinguisher	Water spray, alcohol-resistant foam, dry chemical, carbon dioxide
C. Specific hazards arising from the chemical	No data available
D. Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for fire fighting if necessary.

## 6. Accidental release measures

A. Personal precautions	Remove all sources of ignition.
B. Environmental precautions	Don't dispose the product into drainages.
C. Methods and materials for containment and cleaning up	Pick up and arrange disposed materials without creating dust.

## 7. Handling and storage

A. Precautions for safe handling	Remove all sources of ignition. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with eyes. Do not eat, drink or smoke when using this product.
B. Conditions for safe storage	Avoid heat sources, and strong oxidizing agents.

## 8. Exposure controls & personal protection

A. Components with workplace control parameter	KOSHA : No data available US ACGIH : No data available
B. Appropriate engineering controls	Ventilation
C. Personal protective equipment	
– Respiratory protection	Dust mask
– Hand protection	Protective gloves
– Eye protection	Protective goggles
– Skin and body protection	Working clothes

## 9. Physical and chemical properties

A. State	Solid (at 20°C)
B. Appearance form	Stick (Not power)
C. pH	6.5~7.5 (at 20°C)
D. Flash point	No flash occurred under 93°C (Rapid equilibrium method)
E. Autoignition temperature	No spontaneous combustion under 250°C
F. Water solubility	Water Insoluble (at 20°C)
G. Density	0.95 (at 20°C)
H. Melting range	>60°C
I. Flammability	Burning rate : <0.667 mm/s ※ UN TDG test & criteria – Test N1
J. Explosive properties	No self-reaction hazard ※ UN TDG test & criteria – Test E3
K. Oxidizing properties	No data available
L. Boiling point (Initial)	No data available
M. Vapour pressure	No data available
N. Decomposition temperature	No data available
O. Partition coefficient (n-octanol/water)	No data available
P. Viscosity	No data available
Q. Lower explosion limit	No data available
R. Upper explosion limit	No data available

## 10. Stability and reactivity

A. Chemical stability	Stable under general condition.
B. Conditions to avoid	Avoid dust formation.
C. Materials to avoid	Strong oxidizing agents
D. Hazardous decomposition products	Carbon oxides

## 11. Toxicological information

A. Acute toxicity	Oral rat LD50 : > 2,000 mg/kg Inhalation rat LC50 : No data available Skin rabbit LD50 : No data available
B. Skin irritation	No data available
C. Eye irritation	No data available
D. Respiratory sensitization	No data available
F. Germ cell mutagenicity	No data available
G. Carcinogenicity	Not classifiable
H. Reproductive toxicity	No data available
I. Specific target organ toxicity – single exposure (GHS)	No data available
J. Specific target organ toxicity – repeated exposure (GHS)	No data available
K. Aspiration hazard	No data available

## 12. Ecological information

A. Toxicity	Fish LC50 : No data available Crustacean EC50 : No data available Algae EC50 : No data available
B. Persistence and degradability	No data available
C. Bioaccumulative potential	No data available
D. Mobility in soil	No data available
E. Other adverse effects	No data available

## 13. Disposal considerations

A. Disposal consideration	Observe all environmental regulations.
B. Disposal precaution	Avoid disposing to the environment.

## 14. Transport information

A. UN TDG	Not dangerous goods
B. IMDG	Not dangerous goods
C. IATA	Not dangerous goods
D. Marine pollution	Not applicable
E. Special precaution	Fire EmS Guide : F-A (Recommendation) Spillage EmS Guide : Not dangerous goods

## 15. Regulatory information

A. Korea Industrial Safety and Health Act (GHS)	Not applicable
B. Korea Hazardous Materials Safety Control Act	Not hazardous material
C. Korea Toxic Chemicals Control Act	Not toxic chemical

D. Korea Persistent Organic Pollutants Control Act Not applicable

E. US OSHA Hazards (GHS) Not applicable

## 16. Other information

A. Issued Date 2013. 07. 09

B. Revision No. 0

C. Revision Date -

### D. References

- GHS Classification : Korea MSDS Testing Lab Certificate (Report No. 2013-03-07-290), EC ESIS, US NLM
- Physical and chemical properties Korea MSDS Testing Lab Certificate
- Transport information Korea MSDS Testing Lab Certificate
- Toxic & ecological information OECD SIDS, IUCLID, US NLM, IARC, EC ESIS, CCRIS

### E. Acronyms and Websites

- EC ESIS : European chemical Substances Information System, <http://esis.jrc.ec.europa.eu/>
- IUCLID : International Uniform Chemical Information Database, <http://esis.jrc.ec.europa.eu/>
- US NLM : U.S. National Library of Medicine, <http://chem.sis.nlm.nih.gov/chemidplus/>
- HSDB : US Hazardous Substances Data Bank, <http://toxnet.nlm.nih.gov/>
- CCRIS : US Chemical Carcinogenesis Research Information System, <http://toxnet.nlm.nih.gov/>
- IARC : International Agency for Research on Cancer, <http://monographs.iarc.fr/>

○ This MSDS is composed in line with The Korea Occupational Safety and Health Act Article 41 to protect the health of the employees, and for documentation.  
This MSDS is composed with reference to documents and criteria provided by KOSHA.