



MATERIAL SAFETY DATA SHEET

DEAHEUNG CHEMICAL CO., LTD. www.dhcbond.co.kr



Product Name	D-410
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1. Product and Company Identification

- A. Product Name D-410
- B. Recommended use of the chemical and restrictions on use
- Recommended use of the chemical Adhesion for general wood, veneer, architectural panel
 - 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
- Skin Corrosion/Irritation : Category 2
Serous Eyes Damage/Eye Irritation : Category 2

B. Label elements including precautionary statements

- Symbol



- Signal Word Danger
- Hazard-Risk Statement H315 Causes skin irritation
H319 Causes serious eye irritation
- Precautionary Statement
 - Prevention P264 Wash ... thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
 - Response P302+352 IF ON SKIN : Wash with soap and water
P305+351+338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P321 Specific treatment (see 4 on this label)
P332+313 If skin irritation occurs: Get medical advice/attention
P337+313 If eye irritation persists get medical advice/attention
P362 Take off contaminated clothing and wash before reuse
 - Storage Not data available

C. Other Hazard-Risk which are not included in the classification criteria (e.g. dust explosion hazard)

	Polyvinyl Acetate
Health	1
Fire	1
Reactivity	0

3. Composition/Information on ingredients

Chemical Name	Other name	CAS number	Content(%)
Water	-	7732-18-5	58~60
Polyvinyl Acetate	PVAc	9003-20-7	40~42

4. First aid measures

- A. Eye contact
Rinse with plenty of water for more than 20 minutes remove the keep taking.
Remove contact lenses, keep the lens.
Irritation, pain, swelling, tearing, photophobia persist, call a physician if the physician
- B. Skin contact
Rinse with plenty of water
Removing contaminated clothing and shoes and wash before reuse
Irritation, pain, etc. If this persists, call a physician's examination.
- C. Inhalation
Remove to fresh air
If not breathing, give artificial respiration.
Get immediate medical attention.
- D. Ingestion
Get immediate medical attention.
Do not give liquids.
Do not induce vomiting.
Make lay aside.
- E. Indication of immediate medical attention and notes for physician
Medical personnel are aware of the material and to take precautions to protect.

5. Fire-Fighting measures

- A. Suitable extinguishing media
Water spray, dry powder, foam, carbon dioxide
- B. Special hazard arising from the substance or Mixture
No particular hazards known.
- C. Advice for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.
- D. Other information
This is a water-based product and presents no particular fire or explosion hazard.

6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
Use appropriate personal protective equipment.
Use appropriate personal protective equipment as stated.
Avoid contact with the skin and the eyes.
- B. Environmental precautions and protective procedures
Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.
- C. Methods and materials for containment and cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Contaminated equipment (brushes, rags) must be cleaned immediately with water.
Dispose of in accordance with local regulations.

7. Handling and storage

- A. Precautions for safe handling
Use only in a well-ventilated area.
Avoid prolonged or repeated contact with skin.
Avoid contact with eyes.

Wash thoroughly after handling.

B. Conditions for safe storage (including any incompatibilities) Keep tightly closed in a dry and cool place.

No special technical protective measures required.

8. Exposure controls & personal protection

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

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|------------------------------|---------------|
| - KOSHA | Not available |
| - ACGIH | Not available |
| - Biological exposure limits | Not available |

B. Appropriate engineering controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

C. Personal protective equipment

- | | |
|--------------------------|---|
| - Respiratory protection | IF necessary, the protection wear chemical stability. |
| - Eye protection | Use chemical splash goggles and face shield. |
| - Hands protection | If necessary, the chemical safety wear protective gloves. |
| - Body protection | If necessary, the chemical safety wear protective clothing. |

9. Physical and chemical properties

A. Appearance	Milky white emulsion
B. Odour	Low ammonia odor
C. Odour threshold	Not available
D. pH	4,5 ± 0,5
E. Melting point/freezing point	0 °C
F. Initial boiling point and boiling range	100 °C
G. Flashing point	Not available
H. Evaporation rate	Not available
I. Flammability(solid, gas)	Not available
J. Upper/lower flammability or explosive limits	Not available
K. Vapor pressure	23 hpa at 20 °C
L. Solubility	Partially dissolved
M. Vapor density	Not available
N. Relative density	Approximately 1.05
O. Partition coefficient:n-octanol/water	Not available
P. Auto-ignition temperature	Not available
Q. Decomposition temperature	Not available
R. Viscosity	30,000 ± 2,000 cps
S. Molecular weight	Not available

10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions	Stable under recommended storage conditions No decomposition if stored and applied as directed. No hazards to be especially mentioned.
B. Conditions to avoid	Do not freeze.
C. Incompatible materials	Materials that react with water

11. Toxicological information

A. Information on the likely routes of	No data available
B. Health hazards information	
– Acute toxic	
Oral	LD50 25000mg/kg(Rat)
Inhalation	Not available
Dermal	Not available
– Skin corrosive/irritant	Not available
– Serious eye damage/eye irritation	Not available
– Respiratory sensitization	Not available
– Skin sensitization	Not available
– Carcinogenicity	Not available
– Germ Cell Mutagenicity	Not available
– Reproductive toxicity	Not available
– Specific target organ toxicity (single exposure):	
Not available	Not available
– Specific target organ toxicity (repeated exposure)	
Not available	Not available
– Aspiration hazard	Not available

12. Ecological information

A. Aquatic and terrestrial ecotoxicity	
– Fish	Not available
– Crustacea	Not available
– Algae	Not available
B. Persistence and degradability	Not available
C. Bioaccumulative potential	
– Biodegradability	Not available
– Bioaccumulation	Not available
D. Mobility in soil	Not available
E. Other adverse effects	Not available

13. Disposal considerations

A. Disposal method	Waste management will be handled according to the charging.
B. Disposal precaution	Unauthorized disposal or incineration is harmful to the ecosystem because it will inhibit.

14. Transport information

A. UN number	Not available
B. UN proper shipping name	Not available
C. Transport hazard class:	Not available
D. Packing group (if applicable)	Not available
E. Environmental hazards	Not available
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:	
– Emergency procedure at fire	Not determined
– Emergency procedure at leakages	Not determined

15. Regulatory information

This product has been classified in accordance with the hazard criteria of the MSDS contains all the information required by the Kosha.

16. Other information

A. Information source and references

Source of data : Korea Occupational Safety and Health Agency (KOSHA)>

B. Issuing date

November 23, 2017

C. Revision number and date

D. Further information

This information is based on our present state of knowledge.
It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality