

MATERIAL SAFETY DATA SHEET

DEAHEUNG CHEMICAL CO., LTD. www.dhcbond.com



Product Name DH-2000 NEW

1. Product and Company Identification

A. Product Name DH-2000 NEWB. Recommended use of the chemical and restrictions on use

- Recommended use of the chemical Use of the PVC film (interior film) bonding, as a primer.

- 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 sensitization: category 1

B. Label elements including precautionary statements

- Symbol



- Signal Word Warning

- Hazard·Risk Statement H317 May cause an allergic skin reaction

- Precautionary Statement

Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/protective clothing/eye protection/face protection

Response P302+P352 IF ON SKIN: Wash with soap and water

P321 Specific treatment

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P363 Wash contaminated clothing before reuse

Storage Storage Store at room temperature not to freeze because it is a water-based product.

Disposal P501 Dispose of contents and container in accordance with local regulations.

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

	WATER	EVA	ROSIN	EMULSION
Health	0	1	2	No data available
Fire	0	1	1 No da	No data available
Reactivity	0	0	0	No data available

3. Composition/Information on ingredients

Chemical Name	Other name	CAS number	Content(%)
ETHYLENEVINYL ACETATE COPOLYMER	EVA;	24937-78-8	10~20
ROSIN; ESTER WITH 1,2,3-PROPANETRIOL	FORAL 85;	8050-31-5	30~40
EMULSION	COPOLYMER OF STYRENE AND 1,3- BUTADIENE	70857-14-6	10~20
WATER	DIHYDROGEN OXIDE;	7732-18-5	30~40

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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.

Move to fresh air.

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

D. Ingestion Do not give an unconscious person anything by mouth.

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,

CO₂ (Suitable extinguishing media)

Large fires: water spray, nomal 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.

Move containers from fire area if you can do it without risk.

Dike far ahead of liquid spill for later disposal.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/fume/gas/mist/vapours/spray

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in

immediate area).

Stop leak if you can do it without risk.

Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing.

Cover with DRY earth, DRY sand or other non-combustible material followed

with

plastic sheet to minimize spreading or contact with rain

procedures

B. Environmental precautions and protective 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.

Absorb or cover with dry earth, sand or other non-combustible material and

transfer to containers.

Use clean non-sparking tools to collect absorbed material.

Dike far ahead of liquid spill for later disposal.

7. Handling and storage

A. Precautions for safe handling Store at room temperature. (Above 10℃)

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

Wash thoroughly after handling.

All equipment used when handling the product must be grounded.

Keep cool. Protect from sunlight.

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.

Do not eat, drink or smoke when using this product.

8. Exposure controls & personal protection

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

Occupational exposure limit values

Ethylene-vinyl acetate copolymer No data available No data available Water No data available Rosin No data available Emulsion

ACGIH limit values

Ethylene-vinyl acetate copolymer No data available No data available Water No data available Rosin No data available Emulsion

Biological limit values

Ethylene-vinyl acetate copolymer No data available Not Applicable Water No data available Rosin No data available Emulsion

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 White

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 ℃

G. Flashing point Not Applicable(Water base adhesive)

H. Evaporation rate No data available I. Flammability(solid, gas) No data available J. Upper/lower flammability or explosive Not Applicable

limits

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 1,000 ~ 1,200 cps 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. Inhalation of the substance may be harmful

Non-flammable, the substance itself is not burned but decomposes on heating

and may cause corrosive / toxic fumes

B. Conditions to avoid Avoid the fire, spark, flame, UV, X-RAY and other ignition sources

C. Incompatible materials Irritant, toxic gas Flammable materials

Water reactive materials

Fire may produce irritating, corrosive and/or toxic gases. D. Hazardous decomposition products

11. Toxicological information

A. Information on the likely routes of No data available

B. Health hazards information

Acute toxic

Oral

Ethylene-vinyl acetate copolymer No data available

LD50 90000 mg/kg Rat (LD50 > 90 ml/kg (Rat)) Water

LD50 > 2000 mg/kg Rat Rosin Emulsion No data available

Dermal

No data available Ethylene-vinyl acetate copolymer No data available Water No data available Rosin Emulsion No data available

Inhalation

Ethylene-vinyl acetate copolymer No data available
Water No data available
Rosin No data available
Emulsion No data available

Skin Corrosion/Irritation

Ethylene-vinyl acetate copolymer No data available Water Not Applicable

Rosin Skin irritation with rabbit results in moderate irritation.(GLP: yes)

Emulsion No data available

Serious eye damage/eye irritation

Ethylene-vinyl acetate copolymer No data available
Water Not Applicable

Rosin Skin irritation with rabbit results in moderate irritation.(GLP: yes)

Emulsion No data available

Respiratory sensitization

Ethylene-vinyl acetate copolymer No data available
Water Not Applicable
Rosin No data available
Emulsion No data available

Skin sensitization

Ethylene-vinyl acetate copolymer No data available Water Not Applicable

Rosin Negative test results using guinea pig(GLP: yes)

Emulsion No data available

Carcinogenicity

Ethylene-vinyl acetate copolymer No data available
Water No data available
Rosin No data available
Emulsion No data available

IARC

Ethylene-vinyl acetate copolymer No data available Water No data available Rosin No data available Emulsion No data available

OSHA

Ethylenevinyl acetate copolymer No data available Water No data available Rosin No data available Emulsion No data available

ACGIH

Ethylene-vinyl acetate copolymer No data available Water No data available Rosin No data available Emulsion No data available

NTP

Ethylene-vinyl acetate copolymer No data available
Water No data available
Rosin No data available

Emulsion No data available

EU CLP

Ethylene-vinyl acetate copolymer No data available Water No data available Rosin No data available Emulsion No data available

Germ cell mutagenicity

Ethylene-vinyl acetate copolymer No data available Water Not Applicable

Rosin Microbial return mutation test result Negative

Emulsion No data available

Reproductive toxicity

Ethylene-vinyl acetate copolymer No data available
Water Not Applicable
Rosin No data available
Emulsion No data available

Specific target organ toxicity (single exposure)

Ethylene-vinyl acetate copolymer No data available
Water Not Applicable
Rosin No data available
Emulsion No data available

Specific target organ toxicity (repeated exposure)

Ethylene-vinyl acetate copolymer No data available
Water Not Applicable
Rosin No data available
Emulsion No data available

Aspiration hazard

Ethylene-vinyl acetate copolymer No data available
Water Not Applicable
Rosin No data available
Emulsion No data available

12. Ecological information

A. Aquatic and terrestrial ecotoxicity

- Fish

Ethylene-vinyl acetate copolymer No data available Water No data available Rosin LC50 > 400 mg/ ℓ 96 hr Emulsion No data available

- Shellfish

Ethylene-vinyl acetate copolymer No data available
Water No data available
Rosin EC50 259 mg/l 48 hr
Emulsion No data available

- Birds

Ethylene-vinyl acetate copolymer No data available Water No data available Rosin EC50 > 1000 mg/ℓ 72 hr

Emulsion No data available

B. Persistence and degradability

- Persistence

Ethylene-vinyl acetate copolymer Not Applicable
Water log Kow -1.38
Rosin log Kow< 1.5
Emulsion No data available

- Resolvability

Ethylene-vinyl acetate copolymer No data available
Water No data available
Rosin No data available
Emulsion No data available

C. Bioaccumulative potential

- Concentration

Ethylene-vinyl acetate copolymer 112 ug/L 2.1 hour(s) BCF (Residue) Duckweed (Lemna minor) 60 ug/L.

Water No data available
Rosin No data available
Emulsion No data available

- Bio resolvability

Ethylene-vinyl acetate copolymer No data available
Water No data available
Rosin No data available
Emulsion No data available

D. Mobility in soil

Ethylene-vinyl acetate copolymer No data available
Water No data available
Rosin No data available
Emulsion No data available

E. Other adverse effects

Ethylene-vinyl acetate copolymer No data available Water No data available Rosin No data available Emulsion No data available

13. Disposal considerations

A. Disposal method Dispose of contents and container in accordance with local regulations.

B. Disposal precaution Dispose of contents container according to the regulations.

14. Transport information

A. Land transport(USDOT)

Not classified as a dangerous good under transport regulations

B. Sea transport(IMDG)

Not classified as a dangerous good under transport regulations

C. Air transport(IATA/ICAO)

Not classified as a dangerous good under transport regulations

D. TRANSPORT Notice Store at room temperature not to freeze because it is a water-based product.

15. Regulatory information

A. Industrial Safety and Health ActB. Chemical Control ActNo data available

C. Dangerous Material Safety Control Act Not Applicable (Not regulated as a hazardous material)

D. Wastes Management Act Designated Wastes

E. Other requirements in domestic and other countries

- Domestic regulation

Persistent Organic Pollutant Control Act

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

- Other countries

USA(OSHA)

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

USA(CERCLA)

Ethylene-vinyl acetate copolymer Not Applicable
Water Not Applicable
Rosin Not Applicable
Emulsion Not Applicable

USA(EPCRA 302)

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

USA(EPCRA 304)

Ethylene-vinyl acetate copolymer Not Applicable
Water Not Applicable
Rosin Not Applicable
Emulsion Not Applicable

USA(EPCRA 313)

Ethylene-vinyl acetate copolymer Not Applicable
Water Not Applicable
Rosin Not Applicable
Emulsion Not Applicable

USA (Rotterdam Convention material)

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

USA (Stockholm Convention material)

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

USA (Substance Montreal Protocol)

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

EU (Classification)

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

EU (Risk Phrases)

Ethylene-vinyl acetate copolymer Not Applicable
Water Not Applicable
Rosin Not Applicable
Emulsion Not Applicable

EU (Safety Phrases)

Ethylene-vinyl acetate copolymer Not Applicable Water Not Applicable Rosin Not Applicable Emulsion Not Applicable

16. Other information

A. Information source and references

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

Ethylene-vinyl acetate copolymer

Water

NLM

Rosin

IUCLID(Skin corrosive/irritant)

IUCLID(Serious eye damage/eye irritation)

IUCLID(Skin sensitization)

IUCLID(Germ Cell Mutagenicity)

IUCLID(Fish)

IUCLID(Shellfish)

IUCLID(Birds)

IUCLID(Persistence)

B. Issuing date May 7, 2013C. Revision number and date 6, 2022-05-31

D. Others