

MATERIAL SAFETY DATA SHEET

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



Product Name DF-750

1. Product and Company Identification

A. Product Name DF-750

B. Recommended use of the chemical and restrictions on use

- Recommended use of the chemical Adhesion of floor-covering such as carpet and tile(deco tile, tex tile, sense tile,

deluxe tile etc.)

- 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

Target Organ Toxicity (Repeated Exposure): Category 2

B. Label elements including precautionary statements

- Symbol





- Signal Word Danger

- Hazard·Risk Statement H315 Causes skin irritation

H373 May cause damage to organs through prolonged or repeated exposure

- Precautionary Statement

Prevention P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash thoroughly after handling

P280 Wear protective gloves, protective clothing, protective goggles, and

goggles.

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

P314 Get Medical advice/attention if you feel unwell

P332+P313 If skin irritation occurs: Get medical advice/attention

P321 Take appropriate first aid measures.

Storage Seal and store at room temperature. (Freezing Attention)

Disposal P501 Dispose of contents/container to ···

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

ACRYLIC ESTER COPOLYMER		
Health	No data available	
Fire	No data available	
Reactivity	No data available	

Carbonic Calcium				
Health	2			
Fire	0			
Reactivity	0			
Water				
Health	0			
Fire	0			
Reactivity	0			

3. Composition/Information on ingredients

Chemical Name	Other name	CAS number	Content(%)
ACRYLIC ESTER COPOLYMER	-	30445-28-4	20~30
Carbonic Calcium	CARBONIC ACID, CALCIUM SALT	471-34-1	30~40
Water	DIHYDROGEN OXIDE	7732-18-5	25~35
ADDITIVE	-	(Trade Secrets)	5~10

4. First aid measures

A. Eye contact

IF IN EYES: Wash carefully with water for several minutes. Remove contact

lenses, if possible. Easy to do.

If eye irritation persists, Consult a physician if irritation persists.

If skin irritation occurs, obtain medical advice Keep

Remove/Take off immediately all contaminated clothing.

B. Skin contact

Evacuate area.

Wash with soap and water.

C. Inhalation Call a POISON CENTER or doctor/physician if you feel unwell.

Excessive dust, or fumes when exposed to clean air removed by coughing or

other symptoms and Seek medical attention if you have.

D. Ingestion Do not induce vomiting. If swallowed, rinse mouth with water (only if the person

is conscious).

Seek immediate medical advice.

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 (and unsuitable) extinguishing media

Dry chemical, CO_2 , sand, earth, water spray or regular foam.

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

Fire may produce irritating, corrosive and/or toxic gases.

Containers may explode when heated.

C. Special protective equipment and precautions for fire-fighters

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Fight fire with normal precautions from a reasonable distance.

Dike far ahead of liquid spill for later disposal.

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

Fight fire from maximum distance or use unmanned hose holders or monitor $\dot{\ }$

nozzles.

Cool containers with flooding quantities of water until well after fire is out.

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

discoloration of tank.

ALWAYS stay away from tanks engulfed in fire.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust, fume, gas, mist, vapors, spray.

Wipe off any spills immediately and follow all protective precautions.

Remove all ignition sources.

Stop the leak if it is not dangerous.

Do not touch a damaged container or spill without adequate protection.

Cover with plastic sheet to prevent diffusion.

Note the substances and conditions to avoid.

B. Environmental precautions and protective procedures

Prevent entry into waterways, sewers, basements, and confined spaces.

C. Methods and materials for containment and cleaning up

Absorb spillage with inert materials (eg dry sand or earth) and place in a

chemical waste container.

Absorb liquid and rinse contaminated area with detergent and water.

7. Handling and storage

A. Precautions for safe handling Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Keep cool. Protect from sunlight.(Freezing Attention)

All equipment used when handling the product must be grounded.

Store in a well ventilated place. Keep container tightly closed

B. Conditions for safe storage (including any Store in a well ventilated place. Keep container tightly closed incompatibilities)

8. Exposure controls & personal protection

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

- Occupational exposure limit values

ACRYLIC ESTER COPOLYMER No data available Carbonic Calcium ${\rm TWA-10mg/m^3}$ Water No data available

- ACGIH limit values

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water No data available

- Biological limit values

ACRYLIC ESTER COPOLYMER

Carbonic Calcium

No data available

Water

No data available

B. Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation.

C. Personal protective equipment

- Respiratory protection The filter class must be suitable for the maximum contaminant

concentration(gas/vapour/aerosol/particulates) that may arise when handling the

product.

Eye protection
 Hands protection
 Wear eye protection/face protection.
 Wear proper chemical resistant gloves.

- Body protection Wear proper Protective clothing.

9. Physical and chemical properties

A. Appearance

Physical state Emulsion
Color MILK WHITE

B. Odour little ammonia smell, effluvium

C. Odour threshold No data available

D. pH 6~8

E. Melting point/freezing point 0°C (similar to water)

F. Initial boiling point and boiling range 100°C (similar to water)

G. Flashing point No data available

H. Evaporation rate No data available

I. Flammability(solid, gas) No data available

J. Upper/lower flammability or explosive

limits

K. Vapor pressure

About 23 hPa at 20℃ (similar to water)

No data available

L. Solubility No data available

M. Vapor density About 1 or more (air = 1)

N. Relative density About 1.25

O Partition coefficient:n-octanol/water

P. Auto-ignition temperature

Q. Decomposition temperature

R. Viscosity

No data available

19,000±2,000 cps

S. Formula mass

More than 1 million

10. Stability and reactivity

A. Chemical stability and possibility of

hazardous reactions

If dealt and stored with caution, it is safe.

Container may explode when heated.

May cause irritating, corrosive, toxic gases during fire.

Inhalation of the substance may be harmful.

Some can burn, but not easily ignite.

Some fluids may cause dizziness, suffocation-inducing vapors.

B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)

Strong Acidic, Strong Alkalic, Strong Oxidizer.

C. Incompatible materials Water reactive material.

Combustible materials, reducing materials.

D. Hazardous decomposition products During burning, pyrolysis or combustion can produce irritating and highly toxic

gases.

11. Toxicological information

A. Information on the likely routes of exposure

No data available

B. Health hazards information

- Acute toxic

Oral

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium LD50 6450 mg/kg Rat

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

Dermal

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium No data available

Water No data available

Inhalation

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water No data available

- Skin corrosive/irritant

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium Normal irritation of rabbit -Draize tes, irritation to person

Water No data available

- Serious eye damage/eye irritation

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium Extreme irritation of Rabbit-Draize tes, showing slight stimulation to humans

Water No data available

- Respiratory sensitization

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water Not applicable

- Skin sensitization

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water Not applicable

- Carcinogenicity

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water No data available

- Germ Cell Mutagenicity

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium In vitro Salmonella typhimurium Ames test Negative

Water No data available

- Reproductive toxicity

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water Not applicable

- Specific target organ toxicity (single exposure)

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium Causes irritation when inhaled.

Water Not applicable

- Specific target organ toxicity (repeated exposure)

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium Exposure causes blood system abnormalities, gastrointestinal disorders, and

Hoechst abnormalities.

Water Not applicable

- Aspiration hazard

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water Not applicable

12. Ecological information

A. Aquatic and terrestrial ecotoxicity

- Fish

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium LC50 > 56000 mg/ ℓ 96 hr

Water No data available

- Shellfish

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water No data available

- Birds

ACRYLIC ESTER COPOLYMER No data available Carbonic Calcium EC50 22000 mg/ℓ 96 hr Water No data available

B. Persistence and degradability

- Persistence

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water log Kow -1.38

- Resolvability

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water No data available

C. Bioaccumulative potential

- Concentration

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium BCF 3.162

Water No data available

- Bio resolvability

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water No data available

D. Mobility in soil

ACRYLIC ESTER COPOLYMER

Carbonic Calcium

No data available

Water

No data available

E. Other adverse effects

ACRYLIC ESTER COPOLYMER No data available
Carbonic Calcium No data available
Water 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. UN TDG Not dangerous goods
B. IMDG Not dangerous goods
C. IATA Not dangerous goods
D. Marine pollution Not applicable

Fire EmS Guide: F-A (Recommendation)

Spillage EmS Guide: Not dangerous goods

15. Regulatory information

A. Industrial Safety and Health Act

ACRYLIC ESTER COPOLYMER No data available

Carbonic Calcium Exposure limits set material

Water No data available

B. Chemical Control Act No data available

C. Dangerous Material Safety Control Act Not hazardous material

D. Wastes Management Act Designated Wastes

E. Other requirements in domestic and other countries

- Domestic regulation

Persistent Organic Pollutant Control Act

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

- Other countries

USA(OSHA)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

USA(CERCLA)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

USA(EPCRA 302)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

USA(EPCRA 304)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

USA(EPCRA 313)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

USA (Rotterdam Convention material)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

USA (Stockholm Convention material)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

USA (Substance Montreal Protocol)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

EU (Classification)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

EU (Risk Phrases)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

EU (Safety Phrases)

ACRYLIC ESTER COPOLYMER Not applicable
Carbonic Calcium Not applicable
Water Not applicable

16. Other information

A. Information source and references

ACRYLIC ESTER COPOLYMER

DAEHEUNG SPECIALTY CHEMICAL CO., LTD.

CALCIUM CARBONATE

International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)(Oral)

International Uniform Chemical Information Database(IUCLID)(http://ecb.jrc.it/esis)(Skin corrosive/irritant)

International Uniform ChemicaL Information Database(IUCLID)(Serious eye damage/eye irritation)

National Library of Medicine/Chemical Carcinogenesis Research Information System(NLM/CCRIS)

(http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS)(Germ Cell Mutagenicity)

ECOTOX(Fish)

Ecological Structure Activity Relationships(ECOSAR)(bird)

Quantitative Structure Activity Relation(QSAR)(Concentration)

Quantitative Structure Activity Relation(QSAR)(Mobility in soil)

The Chemical Database, The Department of Chemistry at the University of (http://ull.chemistry.uakron.edu/erd)

WATER

 NLM

B. Issuing date May 22, 2017

C. Revision number and date 0

D. others