

Last revised date : 2022-07-11

PCN No. :

## Safety Data Sheet(SDS)

### 1. Identification of the substance/mixture and of the company/undertaking

1) Product identifier : EVA EA33045 25KG BAG PE

2) Relevant identified uses of the substance or mixture and uses advised against

○ Relevant identified uses

1.Feed materials, Intermediates, 2.Adhesives, sealants, 29.Polymer preparations and compounds

○ Uses advised against

Prohibited for use other than recommended

3) Supplier information

○ Company name [Manufacture]

Company : LG Chem, Ltd.

Address : 54, Dokgot 1-ro, Daesan-eup, Seosan-si, Chungcheongnam-do, Republic of Korea

Emergency number : +82 41-661-2498

### 2. HAZARD IDENTIFICATION

1) Hazard classification

Not applicable

2) Allocation label elements

Hazard pictograms

Signal word

- NONE

Hazard statements

No data available

Precautionary statements

Not applicable

### 3) Other hazards

○ Product NFPA Level

Health	Flamm ability	Reactivity
0	0	0

( ※ 0 = Insufficient , 1 = Slightly , 2 = ordinary , 3 = Highness , 4 = Very high)

## 3. Composition/Information on ingredients

Components	EU REACH No.	CAS No.	PCT(wt%)
Ethylene/vinyl acetate copolymer		24937-78-8	99.7
Trade secret substances1			0.1
trade secret substances2			0.2

## 4. FIRST AID MEASURES

### 1) Following eye contact

- Get medical aid immediately.
- In case of contact with material, immediately flush eyes with running water for at least 15 minutes.

### 2) Following skin contact

- Get medical aid immediately.
- In case of contact with material, immediately flush skin with running water for at least 15 minutes.
- Launder contaminated clothing and shoes before re-use.
- Remove and isolate contaminated clothing and shoes.

### 3) Following inhalation

- Administer oxygen if breathing is difficult.
- Give artificial respiration if victim is not breathing.
- Move to fresh air.
- Seek immediate medial assistance.

### 4) Following ingestion

- Get medical aid immediately.
- If unconscious but breathing, never give anything by mouth.

### 5) Advice to physician

- Do not apply drugs of the adrenaline ephedrine group.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## 5. FIRE FIGHTING MEASURES

### 1) Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media
  - Large fire: Water spray/fog, regular foam (Suitable extinguishing media).
  - Small fire: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2 (Suitable extinguishing media).
- Unsuitable extinguishing media
  - High-pressure water (Unsuitable extinguishing media).

### 2) Special hazards arising from the substance or mixture

- Pyrolytic product
  - No data available
- Risk of fire and explosion
  - Containers may explode when heated.
  - Fire may produce irritating and/or toxic gases.
  - May ignited from heat, friction or contamination.
  - Some may burn but none ignite readily.
- Other
  - May cause toxic effects if inhaled.

### 3) Special protective equipment for firefighters

- Dike fire-control water for later disposal; do not scatter the material.
- Fire involving Tanks: ALWAYS stay away from tanks engulfed in fire.
- Fire involving Tanks: Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Move containers from fire area if you can do it without risk.
- Runoff may cause pollution.
- Substance may be transported hot.

## 6. ACCIDENTAL RELEASE MEASURES

1) Health considerations and protective equipment

- Do not touch or walk through spilled material.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Please note that materials and conditions to be avoided.
- Prevent dust cloud.
- Stop leak if you can do it without risk.
- Ventilate the contaminated area.

2) Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

3) For cleaning up

- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- Small Spill: Flush area with flooding quantities of water.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

## 7. HANDLING AND STORAGE

1) Precautions for safe handling

- CAUTION: High temperature.
- Caution: Dangerous fire hazard when exposed to heat, or flame, sparks.
- Handling refer to engineering control/personal protection section.
- Please note that materials and conditions to be avoided.
- Use adequate machine for prevention when package handling.
- Wash ... thoroughly after handling.
- Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)

2) Conditions for safe storage (including any incompatibilities)

- Choose a place that can be protected from strong oxidizers and acid.
- Drum Handling: Must work at safe place., Loading more than 3 stack is prohibited.
- Store containers: AVOID the place where can be damage and contamination.
- Store in a cool/low-temperature, well-ventilated {dry} place {away from heat and ignition sources}

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

1) Chemical exposure limits, Biological exposure standard

Components	Occupational exposure limits	ACGIH	Biological standard
Ethylene/vinyl acetate copolymer	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable
Trade secret substances1	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable
trade secret substances2	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable

## 2) Appropriate engineering controls

- Make sure you have the right exhaust and ventilation in the workplace.
- Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

## 3) Personal protection equipment

- Respiratory protection
  - If there is a direct contact or exposure, wear a certified appropriate respiratory protection.
- Eye protection
  - Provide emergency showers and eyewash.
  - Wear an appropriate security diameter.
- Hand protection
  - Wear safety gloves for chemicals.
- Body protection
  - Wear a protective gloves/protective clothes/security diameter/security surface/earplugs.
  - Wear suitable protective clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No data available
Physical state	Solid
Colour	No data available
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability(solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility(ies)	No data available
Vapour density	No data available
Relative density	No data available
n-octanol/water partition coefficient	No data available

Auto ignition temperature	>450°C
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight(mass)	No data available

## 10. STABILITY AND REACTIVITY

### 1) Stability and hazardous reactivity

- Containers may explode when heated.
- Fire may produce irritating and/or toxic gases.
- May cause toxic effects if inhaled.
- Some may burn but none ignite readily.
- Stable under normal temperatures and pressures.

### 2) Conditions to avoid

- Ignition source(heat, spark, flame, etc.).

### 3) Incompatible materials

- Combustibles.
- Irritating and/or toxic gas.

### 4) Hazardous decomposition products

No data available

## 11. TOXICOLOGICAL INFORMATION

### 1) Exposure route information

- Inhalation
  - Not applicable
- Skin Contact
  - Not applicable
- Eye Contact
  - Not applicable
- Ingestion
  - Not applicable

### 2) Health hazard information

○ Acute toxicity

● Acute toxicity(Oral) PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available
- trade secret substances2 : LD50> 2000 mg / kg experimental species: Rat, Source: OECD TG423, 환경부 기존화학물질안전성시험(2001-2004)

● Acute toxicity(Dermal) PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available
- trade secret substances2 : LD50> 2000 mg / kg experimental species: Rat, Source: OECD SIDS, EU IUCLID

● Acute toxicity(Inhalation:Gases) PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available
- trade secret substances2 : No data available

● Acute toxicity(Inhalation:Vapours) PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available
- trade secret substances2 : No data available

● Acute toxicity(Inhalation:Dust/mist) PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available
- trade secret substances2 : LC50> 1.81 mg / l 4 hr experiment Species: Rat, Source: ECHA 등록자료

○ Skin corrosion/irritation PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : Probability of MOD / SEV = 0.283, Source: TOPKAT;Skin Irritation
- trade secret substances2 : There is only a very slight irritation: Rabbit, recovered within 7 days, Source: OECD TG404, OECD SIDS

○ Serious eye damage/eye irritation PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : Prob. of SEV Ocular Irritancy = 0.003, Source: TOPKAT;Ocular Irritancy SEV vs MOD
- trade secret substances2 : Irritation: test stimulation index: 4/110, Source: EU IUCLID

○ Respiratory sensitization PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available

- trade secret substances2 : No data available
- Skin sensitization PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : Guinea Pig: 3 weeks 3 intradermal injection, using 20 animals, no emotional reaction, Source: OECD SIDS
- Carcinogenicity PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : No data available
- Germ cell mutagenicity PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : Computed Probability of Mutagenicity = 0.069, Source: TOPKAT;Ames Mutagenicity
  - trade secret substances2 : Reverse mutation test: negative, TA98, TA100, TA1535, TA1537, voice over chromosomes with or without metabolic activation system applied in a used WP2uvrA hyayeo 4.1-1000µg / plate density test: Metabolic activity in voice, 10-100µg / ml with or without speech-based application-Dominant lethal in vivo assay: voice, NMRI mouse: 1000-3000 mg / kg bw Somatic mutation assay: voice, chinese hamster: 500-2000 mg / kg bw, Source: OECD SIDS, EU IUCLID
- Reproductive toxicity PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : Rat: 2-generation reproductive toxicity study Reproductive toxicity: NOAEL 315mg / kg bw / day (up to a concentration probably has no effect), NOAEL for pup development: reduced newborn (96-111mg / kg bw / day's survival and growth at the highest concentration), Source: OECD SIDS
- Specific target organ toxicity single exposure PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : No data available
- Specific target organ toxicity repeated exposure PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : rat (dust / mist inhalation, 21 days 5 days, 6 hours of exposure to one day per week): NOAEL> 0.543mg / L (EU IUCLID), Rat: NOEL 30mg / kg bw / day 28 day 0, 5, 30 , gavage result of exposure to 100 and 300 mg 100, 300mg / kg bw / day group weight gain between the male 100, increases in Microsomal enzymes group 300 and the female 300mg / kg bw / day group, Source: OECD SIDS
- Aspiration hazard PRODUCT : Not classified



- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available
- trade secret substances2 : No data available

## 12. ECOLOGICAL INFORMATION

### 1) Aquatic toxicity

- Fish>PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : LC50 100 mg / ℓ 96 hr *Lepomis macrochirus*, Source: NCIS 기존화학물질 안전성 시험
- Crustacea>PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : EC50 100 mg / ℓ 24 hr *Daphnia magna*, Source: NCIS 기존화학물질 안전성시험
- Aquatic algae>PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : ErC50> 30 mg / ℓ 72 hr *Scenedesmus subspicatus*, Source: Directiw 87/302/EEC, GLP . IUCLID

### 2) Persistence and degradation

- n-octanol water partition coefficient>PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : (Not applicable)
  - Trade secret substances1 : 13.55 log Kow, Source: Ecological Structure Activity Relationships(ECOSAR)
  - trade secret substances2 : 13.41 log Kow ((estimated))
- Degradation>PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : No data available
  - trade secret substances2 : No data available
- Biodegradation>PRODUCT : Not classified
  - Ethylene/vinyl acetate copolymer : No data available
  - Trade secret substances1 : (Cut-off value = 0.5820; recalcitrant (BIOWIN 6)), Source: EPI Suite
  - trade secret substances2 : 39 (%) ~ 21 (%) 28 day, Source: OECD TG 301 C . OECD SIDS

### 3) Bioaccumulative potential>PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : (112 ug / L 2.1 sign BCF (residual) bit duckweed 60ug / L)
- Trade secret substances1 : 8.2, Source: Ecological Structure Activity Relationships(ECOSAR)
- trade secret substances2 : ≤12 (carp (*Cyprinus carpio*) 6 Day 12 than at 0.05mg / L), Source: CERI

4) Mobility in soil>PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : 8.369, Source: Quantitative Structure Activity Relation(QSAR)
- trade secret substances2 : No data available

5) Other adverse effects>PRODUCT : Not classified

- Ethylene/vinyl acetate copolymer : No data available
- Trade secret substances1 : No data available
- trade secret substances2 : No data available

## 13. DISPOSAL CONSIDERATIONS

1) Disposal methods

- Every commercial waste producer shall either treat wastes generated from his/her place of business by him/herself or commission the treatment of such wastes to a person who has license for a waste treatment business under Article 26(3), a person who recycles of such wastes under Article 44(2), a person who has installed and operates a waste disposal facility under Article 4 or 5, a person who has completed the registration of a business of discharging wastes into the sea under Article 18 of the Marine Environment Management Act.

2) Precautions (including disposal of contaminated container of package)

- Discuss it according to waste regulation.
- Do not allow spill material to enter sewers, storm water drains, soil, etc.
- Empty containers may explode and residues can be ignited when pressured, cut, weld, heated.
- Empty containers may rupture when pressured.
- Empty containers recycled under environmental laws.
- Use a certified waste disposal company.
- Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)

## 14. TRANSPORT INFORMATION

1) UN No. : Not applicable

2) Proper shipping name : Not applicable

3) Class or division : Not applicable

4) Packing group : Not applicable

5) Marine pollutant : Not applicable

6) Special safety response for transportation or transportation measure :

Emergency measures in case of fire : Not applicable

Emergency measures in the effluent : Not applicable

- ADR

· Tunnel restriction code : Not applicable

- IMDG
  - Marine pollutant : Not applicable
- Air transport(IATA)
  - UN No. : Not applicable
  - Proper shipping name : Not applicable
  - Class or division : Not applicable
  - Packing group : Not applicable

## 15. REGULATORY INFORMATION

- Global Inventory - EU. European Inventory of Existing Commercial Chemical Substances (EINECS)

- Trade secret substances1

- trade secret substances2

- ETC regulation - EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances (L286, Vol. 52, 31 Octobe

Not applicable

- ETC regulation - EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17, 24 November 2010

Not applicable

- ETC regulation - EU. Regulation No 850/2004 prohibiting and restricting persistent organic pollutants (POPs), as last amended by Regulation No 51

Not applicable

- ETC regulation - EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances (Reg 1907/2006

Not applicable

- ETC regulation - EU. GHS Classification. CLP Reg. No 1272/2008 of 16 Dec 2008, Annex VI, Table 3.1, List of harmonized classification & labelling

Not applicable

- ETC regulation - EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances (L286, Vol. 52, 31 October 2009

Not applicable

- ETC regulation - EU. REACH, Annex XIV, Substances Subject to Authorization, as amended through Regulation No 895/2014 of 19 August 2014

Not applicable

- ETC regulation - EU. Directive 2012/18/EU on major accident hazards involving dangerous substances, Annex I, OJ (L 197)1, 24 July 2012

Not applicable

- ETC regulation - EU. Regulation EU No. 649/2012, Annex V, Chemicals and articles subject to export ban, OJ L 201, p. 60, 27 July 2012

Not applicable

- ETC regulation - EU. Annexes I, II (F-gases subject to emission limits/reporting), IV (GWPs for mixture calculations), Reg. 517/2014/EU on fluorid

Not applicable

## 16. OTHER INFORMATION

### 1) Reference

- CERl
- Directiw 87/302/EEC, GLP . IUCLID
- ECHA 등록자료
- EPI Suite
- EU CLP
- EU IUCLID
- Ecological Structure Activity Relationships(ECOSAR)
- NCIS 기존화확물질 안전성 시험
- NCIS 기존화확물질 안전성시험
- OECD SIDS
- OECD SIDS, EU IUCLID
- OECD TG 301 C . OECD SIDS
- OECD TG404, OECD SIDS
- OECD TG423, 환경부 기존화확물질안전성시험(2001-2004)
- Quantitative Structure Activity Relation(QSAR)
- TOPKAT;Ames Mutagenicity
- TOPKAT;Ocular Irritancy SEV vs MOD
- TOPKAT;Skin Irritation

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### 3) Revision date

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### 4) Other

