+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LG Chem

Last revised date : 2022-07-14
MSDS No. : AA00566-2100000306

Safety Data Sheet(SDS)

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

1) Product identifier : PDBF415E

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

○ Relevant identified uses

48.Others (Protection film)

○ Uses advised against

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)41-661-2651

2. HAZARD IDENTIFICATION

1) Hazard classification

Not applicable

2) Allocation label elements

Hazard pictograms

Signal word

- NONE

Hazard statements

No data available

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Precautionary statements

Not applicable

3) Other hazardsNo data available

○ Product NFPA Level

Health	Flamm abliity	Reactivity
1	1	0

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

3. Composition/Information on ingredients

Components	Common name	CAS No.	PCT(wt%)
Polyethylene	Polyethylene	9002-88-4	100

4. FIRST AID MEASURES

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

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

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

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

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.
- May ignited from heat, friction or contamination.
- Some may burn but none ignite readily.
- Fire may produce irritating and/or toxic gases.

○ Other

- May cause toxic effects if inhaled.

3) Special protective equipment for firefighters

- Runoff may cause pollution.
- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Substance may be transported hot.
- 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.
- Fire involving Tanks: ALWAYS stay away from tanks engulfed in fire.

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).
- Prevent dust cloud.
- Ventilate the contaminated area.
- Stop leak if you can do it without risk.

- Please note that materials and conditions to be avoided.

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

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
Polyethylene	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable

2) Appropriate engineering controls

- Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

- Make sure you have the right exhaust and ventilation in the workplace.

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	Colorless solid
Odour	Odorless
Odour threshold	No data available
pH	No data available
Melting point/freezing point	85 ~ 140 ℃
Initial boiling point and boiling range	No data available
Flash point	341 ℃
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)	(Insoluble)
Vapour density	No data available
Relative density	0.91 to 0.96 (G / CM3)
n-octanol/water partition coefficient	No data available
Auto ignition temperature	330 ~ 410 ℃
Decomposition temperature	No data available
Viscosity	No data available
Molecular weight(mass)	1500-100000

10. STABILITY AND REACTIVITY

1) Stability and hazardous reactivity

- Containers may explode when heated.
- May cause toxic effects if inhaled.

- Stable under normal temperatures and pressures.
- Some may burn but none ignite readily.
- Fire may produce irritating and/or toxic gases.

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)

  LD50> 8000 ㎎ / ㎏ experimental species: Rat, Source: RTECS

- Acute toxicity(Dermal)

  No data available

- Acute toxicity(Inhalation:Gases)

  No data available

- Acute toxicity(Inhalation:Vapours)

  No data available

- Acute toxicity(Inhalation:Dust/mist)

  LC50 75.5 ㎎ / ℓ 30 min experimental species: Rat, Source: RTECS

○ Skin corrosion/irritation

No data available

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○ Serious eye damage/eye irritation

No data available

○ Respiratory sensitization

No data available

○ Skin sensitization

No data available

○ Carcinogenicity

2.44 (IARC), Source: IARC

○ Germ cell mutagenicity

No data available

○ Reproductive toxicity

No data available

○ Specific target organ toxicity single exposure

If breathing dust causes inflammation of the lungs in laboratory animals (rats)., Source: Kochetkova, 1971

○ Specific target organ toxicity repeated exposure

No data available

○ Aspiration hazard

No data available

12. ECOLOGICAL INFORMATION

1) Aquatic toxicity

- Fish

No data available

- Crustacea

No data available

- Aquatic algae

No data available

2) Persistence and degradation

- n-octanol water partition coefficient

No data available

- Degradation

No data available

- Biodegradation

No data available

3) Bioaccumulative potential

No data available

4) Mobility in soil

No data available

5) Other adverse effects

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)

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

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

1) Occupational Safety and Health Act in Korea

- Not applicable

2) Toxic Chemical Control Act in Korea

- Not applicable

3) Safety Control of Dangerous Substances Act in Korea

- Not applicable

4) Wastes Control Act in Korea

- Designated waste (Not Applicable)

-In case of disposal, it must be disposed of in accordance with Article 13 of the Waste Management Act.

5) Other regulations in KOREA and Abroad regulations

- ETC regulation
  - Not applicable
  - Not applicable
- PERSISTENT ORGANIC POLLUTANTS CONTROL ACT
  - Not applicable
- Act on the registration and evaluation of chemicals
  - Existing Commercial Chemical Substances

16. OTHER INFORMATION

1) Reference

- HSDB
- ICSC
- Kochetkova, 1971
- Ministry of Employment and Labor
- Ministry of Environment
- RTECS

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2) Print date : 2021-11-19

3) Revision date

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- ○ Last revised history : Create English version

4) Other