

Last revised date : 2022-06-03  
MSDS No. : AA00566-2100000368

## Safety Data Sheet(SDS)

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

- 1) Product identifier : LDPE BS500 PELLET HALF-FINISHED
- 2) Relevant identified uses of the substance or mixture and uses advised against
  - Relevant identified uses  
48.Others (Film)
  - Uses advised against  
Prohibited for use other than recommended
- 3) Supplier information
  - Company name [Manufacture]  
Company : LGC Daesan  
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

#### Precautionary statements

Not applicable

#### 3) Other hazards

##### ○ Product NFPA Level

Health	Flamm ability	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 substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Seek immediate medial assistance.

##### 2) Following skin contact

- For minor skin contact, avoid spreading material on unaffected skin.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Seek immediate medial assistance.

##### 3) Following inhalation

- Administer oxygen if breathing is difficult.
- Give artificial respiration if victim is not breathing.
- If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
- Keep victim warm and quiet.
- Move to fresh air.

##### 4) Following ingestion

- Seek immediate medial assistance.

##### 5) Advice to physician

- 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
  - CO<sub>2</sub>.
  - Dry chemical.
  - Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
  - Use dry sand or earth to smother fire.
  - Water spray.
- Unsuitable extinguishing media
  - Direct water.

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

- Pyrolytic product
  - Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- Risk of fire and explosion
  - Containers may explode when heated.
  - Some may burn but none ignite readily.
- Other
  - No data available

### 3) Special protective equipment for firefighters

- Dike fire-control water for later disposal; do not scatter the material.
- Evacuate area and fight fire from a safe distance.
- 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: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Fire involving Tanks: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
- 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.
- Substance may be transported in a molten form.

## 6. ACCIDENTAL RELEASE MEASURES

### 1) Health considerations and protective equipment

- Clean up spills immediately, observing precautions in Protective Equipment section.
- Cover with plastic sheet to prevent spreading.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Please note that materials and conditions to be avoided.
- Stop leak if you can do it without risk.

### 2) Environmental precautions

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

### 3) For cleaning up

- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.
- Absorb the liquid and scrub the area with detergent and water.

## 7. HANDLING AND STORAGE

### 1) Precautions for safe handling

- Avoid breathing vapors from heated material.
- Do not enter storage area unless adequately ventilated.
- Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
- Handling refer to engineering control/personal protection section.
- Loosen closure cautiously before opening.
- Please note that materials and conditions to be avoided.
- Use care in handling/storage.
- Use only in a well-ventilated area.

### 2) Conditions for safe storage (including any incompatibilities)

- Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of.

## 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

- If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### 3) Personal protection equipment

- Respiratory protection
  - If high frequency of use or exposure, wear air respirator.
  - Wear breathing protection, which needs a confirmation from the Korea Occupational Safety and Health Agency.
- Eye protection
  - Wear suitable protective goggles and face shields.
- Hand protection
  - Wear suitable protective gloves.
- Body protection
  - Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No data available
Physical state	Solid
Colour	White
Odour	Odorless
Odour threshold	No data available
pH	No data available
Melting point/freezing point	85 ~ 140 °C
Initial boiling point and boiling range	No data available
Flash point	341 °C
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	0.91-0.96 (g / cm <sup>3</sup> )
n-octanol/water partition coefficient	No data available
Auto ignition temperature	330-410 °C
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.
- Fire may produce irritating, corrosive and/or toxic gases.
- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- Some may burn but none ignite readily.

### 2) Conditions to avoid

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

### 3) Incompatible materials

- Combustibles, reducing material.

### 4) Hazardous decomposition products

- Corrosive/toxic fume.
- Irritating, corrosive and/or toxic gas.

## 11. TOXICOLOGICAL INFORMATION

### 1) Exposure route information

- Inhalation
  - May cause respiratory irritation
- Skin Contact
  - Not applicable
- Eye Contact
  - Not applicable
- Ingestion
  - Not applicable

### 2) Health hazard information

- Acute toxicity
  - Acute toxicity(Oral)  
LD50> 8000 mg / kg 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 mg / l 30 min experimental species: Rat, Source: RTECS

○ Skin corrosion/irritation

No data available

○ Serious eye damage/eye irritation

No data available

○ Respiratory sensitization

No data available

○ Skin sensitization

No data available

○ Carcinogenicity

3 (IARC), Source: IARC

○ Germ cell mutagenicity

No data available

○ Reproductive toxicity

No data available

○ Specific target organ toxicity single exposure

No data available

○ 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)

- Do not allow spill material to enter sewers, storm 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

- ECHA
- HSDB
- ICSC
- Ministry of Employment and Labor
- Ministry of Environment
- RTECS

### 2) Print date : 2021-12-08

### 3) Revision date

- Revised date count : 1
- Last revised date : 2022-06-03
- Last revised history : Unity the standard of KOSHA and ECHA

#### 4) Other