

# Safety Data Sheet(SDS)

Last revised date : 26-12-2022

## 1. Identification

1) Product identifier : PBT ASF-9810F

2) Recommended use of the chemical and restrictions on use

○ Recommended use of the chemical

Others(Synthetic Resin Plastics)

○ Restrictions on use

Use for recommended use only

Do not use it for weapons manufacturing and related purposes.

3) Details of the supplier of the safety data sheet

○ Seller

Company name : Lotte Chemical Corporation

Address : 05551 Lotte World Tower, 300, Olympic-ro, Songpa-gu, Seoul, 05551 Rep. of KOREA

Telephone number :

|                 |                |                    |                 |
|-----------------|----------------|--------------------|-----------------|
| Basic Chemicals | +82-2-829-4114 | Advanced Materials | +82-31-596-3114 |
|-----------------|----------------|--------------------|-----------------|

Emergency phone number

|              |                 |                                 |                 |
|--------------|-----------------|---------------------------------|-----------------|
| Yeosu Plant  | +82-61-688-2100 | Ulsan Plant                     | +82-52-278-3500 |
| Daesan Plant | +82-41-689-5900 | Yeosu Plant(Advanced Materials) | +82-61-689-1100 |

Fax number : +82-2-834-6070

## 2. Hazards identification

1) Hazard classification

- Not applicable

2) Allocation label elements

Hazard pictograms

- Not applicable

Signal word

- NONE

Hazard statements

- Not applicable

## Precautionary statements

- Not applicable

### 3) Other hazards:

According to experience and information provided, this product does not affect harmful effects when using and handling it as a regulation.

## 3. Composition/Information on ingredients

| Chemical name  | Common name | CAS No.    | Content(wt%)           |
|--|-------------|------------|------------------------|
| 1,4-Benzenedicarboxylic acid polymer with 1,4-butanediol | -           | 26062-94-2 | $\geq 97 \sim \leq 99$ |
| Additives  | -           |            | $\geq 0.1 \sim \leq 3$ |

## 4. First-aid measures

### 1) Following eye contact

- Call a physician immediately.

### 2) Following skin contact

- Get medical attention if irritation develops and persists.  
- Remove contaminated clothing and shoes.

### 3) Following inhalation

- If symptoms persist, call a physician.  
- Move to fresh air.

### 4) Following ingestion

- If accidentally swallowed obtain immediate medical attention.

### 5) Delayed and immediate effects and also chronic effects from short and long term exposure

No data available

### 6) Advice to physician

- In the case of accident or if you feel unwell, seek medical advice immediately.

## 5. Fire-Fighting measures

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

- Suitable extinguishing media
  - Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media
  - Do not use a solid water stream as it may scatter and spread fire.

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

- Pyrolytic product
    - No data available
  - Risk of fire and explosion
    - Heating or fire can release toxic gas.
  - Other
    - May cause toxic effects if inhaled.
- 3) Special protective equipment for firefighters
- In the event of fire, wear self-contained breathing apparatus.

## 6. Accident release measures

- 1) Personal precautions, protective equipment and emergency procedures
  - Avoid dust formation.
- 2) Environmental precautions
  - Try to prevent the material from entering drains or water courses.
- 3) Methods and materials for containment and cleaning up
  - Keep in suitable, closed containers for disposal.
  - Pick up and arrange disposal without creating dust.

## 7. Handling and storage

- 1) Precautions for safe handling
  - For personal protection see section 8.
  - Smoking, eating and drinking should be prohibited in the application area.
- 2) Conditions for safe storage (including any incompatibilities)
  - Please note that materials and conditions to be avoided.
  - Store in a dry place. Store in a closed container.

## 8. Exposure controls & personal protection

- 1) Chemical exposure limits, Biological exposure standard
  - Contains no substances with occupational exposure limit values.
- 2) Appropriate engineering controls
  - Ensure adequate ventilation and exhaust ventilation at the workplace.
- 3) Personal protective equipment
  - Respiratory protection
    - If you have a direct contact or exposed to the material, wear the appropriate form of respiratory protection certified.
  - Eye protection
    - If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.
  - Hand protection

- Wear chemical safety gloves.
- Skin protection
  - Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

## 9. Physical and chemical information

| Property name                                | Values                    | Source |
|--|---------------------------|--------|
| Appearance                                   |                           |        |
| Physical state                               | Soild                     |        |
| Color  | Depends on customer needs |        |
| Odor   | Odorless                  |        |
| Odor threshold                               | No data available         |        |
| pH   | No data available         |        |
| Melting point/freezing point                 | 180~265°C                 |        |
| Initial boiling point and boiling range(°C)  | No data available         |        |
| Flash point(°C)                              | 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)                              | Insolubility              |        |
| Vapour density                               | No data available         |        |
| Relative density                             | No data available         |        |
| n-octanol/water partition coefficient        | No data available         |        |
| Auto ignition temperature                    | 400 °C over               |        |
| Decomposition temperature                    | No data available         |        |
| Viscosity(mm²/s, 40°C)                       | No data available         |        |
| Molecular weight(mass)                       | 10,000 - 150,000 (active) |        |
| Specific gravity                             | 1.0 - 1.4                 |        |

## 10. Stability and reactivity

- 1) Chemical stability and Possibility of hazardous reactions
  - No decomposition if stored and applied as directed.
  - Stable at normal ambient temperature and pressure.

## 2) Conditions to avoid

- Follow precautionary advice and avoid incompatible materials and conditions

## 3) Incompatible materials

- Combustible material

## 4) Hazardous decomposition products

- This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regula

# 11. Toxicological information

## 1) Information on the likely routes of exposure

- No data available

## 2) Health hazard information

- Acute toxicity
  - Acute toxicity(Oral) PRODUCT : Not classified
    - No data available
  - Acute toxicity(Dermal) PRODUCT : Not classified
    - No data available
  - Acute toxicity(Inhalation:Gases) PRODUCT : Not classified
    - No data available
  - Acute toxicity(Inhalation:Vapours) PRODUCT : Not classified
    - No data available
  - Acute toxicity(Inhalation:Dust/mist) PRODUCT : Not classified
    - No data available
- Skin corrosion/irritation PRODUCT : Not classified
  - No data available
- Serious eye damage/eye irritation PRODUCT : Not classified
  - No data available
- Respiratory sensitization PRODUCT : Not classified
  - No data available
- Skin sensitization PRODUCT : Not classified
  - No data available
- Carcinogenicity PRODUCT : Not classified
  - No data available
- Germ cell mutagenicity PRODUCT : Not classified

- No data available
- Reproductive toxicity PRODUCT : Not classified
  - No data available
- Specific target organ toxicity single exposure PRODUCT : Not classified
  - No data available
- Specific target organ toxicity repeated exposure PRODUCT : Not classified
  - No data available
- Aspiration hazard PRODUCT : Not classified
  - No data available

## 12. Ecological information

- 1) Ecotoxicity
  - No data available
- 2) Persistence and degradability
  - No data available
- 3) Bioaccumulative potential
  - n-octanol water partition coefficient
    - 1,4-Benzenedicarboxylic acid polymer with 1,4-butanediol
    - : (Not applicable)
  - Bioconcentration factor(BCF)
    - No data available
- 4) Mobility in soil
  - No data available
- 5) Other adverse effects
  - No data available

## 13. Disposal considerations

- 1) Disposal methods
  - Empty containers should be taken to an approved waste handling site for recycling or disposal.
- 2) Precautions (including disposal of contaminated container of package)
  - Dispose of in accordance with local regulations.
  - Send to a licensed waste management company.

## 14. Transport information

- 1) UN No. : Not applicable
  - 2) Proper shipping name : Not applicable
  - 3) Hazard class : Not applicable
  - 4) Packing group : Not applicable
  - 5) Marine pollutant : No
  - 6) Special precautions for user related to transport or transportation measures :
    - Emergency measures in case of fire : Not applicable
    - Emergency measures in the effluent : Not applicable
- ADR
    - Tunnel restriction code : Not applicable
  - IMDG
    - Marine pollutant : No
  - Air transport(IATA)
    - UN No. : Not applicable
    - Proper shipping name : Not applicable
    - Class or division : Not applicable
    - Packing group : Not applicable

## 15. Regulatory information

Australia Industrial Chemicals Act

- Not applicable

China Inventory of Existing Chemical Substances (IECSC)

- Inventory - China - Inventory of Existing Chemical Substances (IECSC)
  - 1,4-Benzenedicarboxylic acid polymer with 1,4-butanediol : Present [21309]

92/32/EEC

- Not applicable

European Union Official Journal of the European Communities 15 June 1990 - Annex Based on Article 13 of Directive 67/548/EEC Amended by Directive 79/831/EEC

- Not applicable

Japan Law Concerning the Examination and Regulations of Manufacture, etc. of Chemical Substances

- Inventory - Japan - Existing and New Chemical Substances (ENCS)

- 1,4-Benzenedicarboxylic acid polymer with 1,4-butanediol : (7)-705, (7)-1021, (7)-1039

#### New Zealand Environmental Protection Authority, Inventory of Chemicals

- Inventory - New Zealand - Inventory of Chemicals (NZIoC)

- 1,4-Benzenedicarboxylic acid polymer with 1,4-butanediol : May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right

#### Turkey Regulation on Inventory and Control of Chemicals

- Not applicable

#### Taiwan Chemical Substance Inventory

- Inventory - Taiwan - Taiwan Chemical Substance Inventory (TCSI)

- 1,4-Benzenedicarboxylic acid polymer with 1,4-butanediol : Present

#### U.S. Toxic Substances Control Act

#### Vietnam National Chemicals Inventory (NCI)

- Inventory - Vietnam - National Chemicals Inventory (NCI) (DRAFT)

- 1,4-Benzenedicarboxylic acid polymer with 1,4-butanediol : Present 16347

## 16. Other information

### 1) Reference

NCIS, KOSHA, Montreal Protocol, ECHA, OECD SIDS, EU IUCLID, HSDB(PubChem), NITE, NTP, ACGIH, IARC, NIOSH, ChemIDplus, EPA, EPI Suite, INCHEM

### 2) Issue date : 26-12-2022

### 3) Revision date

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