

# Safety Data Sheet(SDS)

Last revised date : 26-12-2022

## 1. Identification

- 1) Product identifier : PC/ABS\_NE-1030TV
- 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
- 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%)              |
|--|---|-------------|---------------------------|
| 2,2-Bis(4-hydroxyphenyl)propane                                      | Poly[oxy-carbonyloxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene] | 24936-68-3  | $\geq 65 \sim \leq 75$    |
| Phosphoric trichloride reaction products with bisphenol A and phenol | Phosphoric trichloride, reaction products with bisphenol A and phenol | 181028-79-5 | $\geq 15 \sim \leq 25$    |
| polymer with 1,3-butadiene and ethenylbenzene                        | ABS Resin   | 9003-56-9   | $\geq 5 \sim \leq 15$     |
| Additive   |   |             | $\geq 0.0001 \sim \leq 5$ |

## 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                 | No data available         |        |
| 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           | No data available        |  |
| Decomposition temperature           | 400 °C over              |  |
| Viscosity(mm <sup>2</sup> /s, 40°C) | No data available        |  |
| Molecular weight(mass)              | 10,000 - 80,000 (active) |  |
| Specific gravity                    | 1.2 - 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

- Fish
  - Phosphoric trichloride reaction products with bisphenol A and phenol  
: LC50 40.287 mg / ℓ 96 hr (ECOSAR: Phenols)
  - polymer with 1,3-butadiene and ethenylbenzene  
: LC50 11.5 mg / ℓ 96 hr Pimephales promelas
- Crustaceans
  - Phosphoric trichloride reaction products with bisphenol A and phenol  
: LC50 15.340 mg / ℓ 48 hr (ECOSAR: Phenols)
- Aquatic algae
  - Phosphoric trichloride reaction products with bisphenol A and phenol  
: EC50 69.098 mg / ℓ 96 hr (ECOSAR: Phenols)

### 2) Persistence and degradability

- Degradability  
No data available

- Biodegradation
  - Phosphoric trichloride reaction products with bisphenol A and phenol : (Recalcitrant (Biowin 1,2,5,6,7))

### 3) Bioaccumulative potential

- n-octanol water partition coefficient
  - Phosphoric trichloride reaction products with bisphenol A and phenol : 2.21 log Kow
- Bioconcentration factor(BCF)
  - Phosphoric trichloride reaction products with bisphenol A and phenol : 2.011

### 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)
  - 2,2-Bis(4-hydroxyphenyl)propane polycarbonate : Present [21562]
  - Phosphoric trichloride reaction products with bisphenol A and phenol : Present [29464]
  - polymer with 1,3-butadiene and ethenylbenzene : Present [03641]

### 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)
  - 2,2-Bis(4-hydroxyphenyl)propane polycarbonate : (7)-738
  - Phosphoric trichloride reaction products with bisphenol A and phenol : (3)-4400
  - polymer with 1,3-butadiene and ethenylbenzene : (6)-176

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

- Inventory - New Zealand - Inventory of Chemicals (NZIoC)
  - 2,2-Bis(4-hydroxyphenyl)propane polycarbonate : May be used as a single component chemical under an appropriate group standard
  - Phosphoric trichloride reaction products with bisphenol A and phenol : May be used as a single component chemical under an appropriate group standard
  - polymer with 1,3-butadiene and ethenylbenzene : May be used as a single component chemical under an appropriate group standard

### Turkey Regulation on Inventory and Control of Chemicals



- Not applicable

#### Taiwan Chemical Substance Inventory

- Inventory - Taiwan - Taiwan Chemical Substance Inventory (TCSI)
  - 2,2-Bis(4-hydroxyphenyl)propane polycarbonate : Present
  - Phosphoric trichloride reaction products with bisphenol A and phenol : Present
  - polymer with 1,3-butadiene and ethenylbenzene : Present

#### Vietnam National Chemicals Inventory (NCI)

- Inventory - Vietnam - National Chemicals Inventory (NCI) (DRAFT)
  - 2,2-Bis(4-hydroxyphenyl)propane polycarbonate : Present 15829
  - Phosphoric trichloride reaction products with bisphenol A and phenol : Present 29061
  - polymer with 1,3-butadiene and ethenylbenzene : Present 12125

## 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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