

# Safety Data Sheet(SDS)

Last revised date : 26-12-2022

#### 1. Identification

- 1) Product identifier : PC/ABS FR NH-1015B
- 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
  - $\circ \, \text{Seller}$ 
    - 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 polycarbonate	-	24936-68-3	>=65 ~ <=75
2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene	ABS Resin	9003-56-9	>=10 ~ <=20
Phosphoric trichloride reaction products with bisphenol A and phenol	-	181028-79-5	>=10 ~ <=20
Additives	-		>=0.1 ~ <=2

# 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
  - $^{\rm O}$  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	
рН	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 (water)	
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(mm²/s, 40°C)	No data available	
Molecular weight(mass)	No data available	
Specific gravity	1.10 ~ 1.25	

#### 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(ATEmix = 1927.067mg/kg)
    - 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
- $^{\circ}$  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
- $^{\circ}$  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
    - 2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene
    - : LC50 11.5 mg /  $\ell$  96 hr Pimephales promelas
    - Phosphoric trichloride reaction products with bisphenol A and phenol : LC50 40.287 mg /  $\ell$  96 hr (ECOSAR: Phenols)
  - 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 /  $\ell$  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]
- 2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene : Present [03641]
- Phosphoric trichloride reaction products with bisphenol A and phenol : Present [29464]

#### 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
- 2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene : (6)-176
- Phosphoric trichloride reaction products with bisphenol A and phenol : (3)-4400

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

- 2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene : 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

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
- 2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene : Present
- Phosphoric trichloride reaction products with bisphenol A and phenol : Present
- U.S. Toxic Substances Control Act

Vietnam National Chemicals Inventory (NCI)

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

## 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

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- 3) Revision date
  - Revised date count : 2-1
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