

# Safety Data Sheet(SDS)

Last revised date: 26-12-2022

### 1. Identification

1) Product identifier: ABS MP-0670

2) Recommended use of the chemical and restrictions on use

 Recommended use of the chemical Others(Synthetic Resin Plastics)

o 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%)
polymer with 1,3-butadiene and ethenylbenzene	ABS Resin	9003-56-9	>=97.5 ~ <=99
Addtive			>=0.1 ~ <=1
N,N'-ethylenedi(stearamide)	N,N'-ethylenedi(stearamide)	110-30-5	>=0.5 ~ <=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
  - O Suitable extinguishing media
    - Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
  - O 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
  - o Pyrolytic product
    - No data available
  - 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.

#### 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	
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)	50,000 - 250,000	
Specific gravity	1.0 - 1.1	

# 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
      - N,N'-ethylenedi(stearamide)
      - : LD50> 5000 mg / kg
    - Acute toxicity(Dermal) PRODUCT : Not classified
      - N,N'-ethylenedi(stearamide)
      - : LD50> 2000 mg / kg
    - 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
  - o Skin corrosion/irritation PRODUCT : Not classified
    - No data available
  - Serious eye damage/eye irritation PRODUCT : Not classified
    - No data available
  - o Respiratory sensitization PRODUCT : Not classified
    - No data available
  - o Skin sensitization PRODUCT : Not classified
    - No data available
  - o Carcinogenicity PRODUCT: Not classified
    - No data available

- o Germ cell mutagenicity PRODUCT : Not classified
  - N,N'-ethylenedi(stearamide)
  - : In vitro / audio
- o Reproductive toxicity PRODUCT : Not classified
  - No data available
- o Specific target organ toxicity single exposure PRODUCT : Not classified
  - No data available
- o Specific target organ toxicity repeated exposure PRODUCT : Not classified
  - No data available
- o Aspiration hazard PRODUCT : Not classified
  - No data available

### 12. Ecological information

- 1) Ecotoxicity
  - Fish
    - polymer with 1,3-butadiene and ethenylbenzene
    - : LC50 11.5 mg /  $\ell$  96 hr Pimephales promelas
  - Crustaceans

No data available

• Aquatic algae

No data available

- 2) Persistence and degradability
  - Degradability

No data available

- Biodegradation
  - N,N'-ethylenedi(stearamide)
  - : 15 (%) 28 day
- 3) Bioaccumulative potential
  - n-octanol water partition coefficient
    - N,N'-ethylenedi(stearamide)
    - : 13.98 log Kow (@ 25 °C)
  - 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)
- N,N'-ethylenedi(stearamide): Present [38286]
- 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

- Inventory European Union European Inventory of Existing Commercial Chemical Substances (EINECS)
- N,N'-ethylenedi(stearamide): 203-755-6

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

- Inventory Japan Existing and New Chemical Substances (ENCS)
- N,N'-ethylenedi(stearamide): (2)-831
- polymer with 1,3-butadiene and ethenylbenzene : (6)-176

New Zealand Environmental Protection Authority, Inventory of Chemicals

- Inventory New Zealand Inventory of Chemicals (NZIoC)
- N,N'-ethylenedi(stearamide) : 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)
- N,N'-ethylenedi(stearamide): Present
- polymer with 1,3-butadiene and ethenylbenzene : Present

Vietnam National Chemicals Inventory (NCI)

- Inventory Vietnam National Chemicals Inventory (NCI) (DRAFT)
- N,N'-ethylenedi(stearamide): Present 01999
- 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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