

# Safety Data Sheet(SDS)

Last revised date : 26-12-2022

### 1. Identification

- 1) Product identifier : ABS MR-0130
- 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
  - $\bigcirc$  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				
Eme	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	>=95 ~ <=99
N,N'-ethylenedi(stearamide)	-	110-30-5	>=0.1 ~ <=3
Additives	-		>=0.1 ~ <=1

### 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
  - $^{\circ}$  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.
  - $^{\circ}$  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)	1.0mm HB(UL94)	
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(m <sup>2</sup> /s, 40°C)	No data available	
Molecular weight(mass)	50,000 - 250,000 (active)	
Specific gravity	1.00 - 1.10	

# 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 = 1888.153mg/kg)
  - 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
- ° 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
  - N,N'-ethylenedi(stearamide)
    - : In vitro / audio
- 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
    - 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
  - $\cdot$  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)
- polymer with 1,3-butadiene and ethenylbenzene : Present [03641]
- N,N'-ethylenedi(stearamide) : Present [38286]

#### 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)
- polymer with 1,3-butadiene and ethenylbenzene : (6)-176
- N,N'-ethylenedi(stearamide) : (2)-831

New Zealand Environmental Protection Authority, Inventory of Chemicals

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

- polymer with 1,3-butadiene and ethenylbenzene : May be used as a single component chemical under an appropriate group standard

- N,N'-ethylenedi(stearamide) : 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)
- polymer with 1,3-butadiene and ethenylbenzene : Present
- N,N'-ethylenedi(stearamide) : Present

Vietnam National Chemicals Inventory (NCI)

- Inventory Vietnam National Chemicals Inventory (NCI) (DRAFT)
- polymer with 1,3-butadiene and ethenylbenzene : Present 12125
- N,N'-ethylenedi(stearamide) : Present 01999

### 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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