

# 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

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
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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-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene	ABS Resin	9003-56-9	$\geq 95 \sim \leq 99$
N,N'-ethylenedi(stearamide)	-	110-30-5	$\geq 0.1 \sim \leq 3$
Additives	-		$\geq 0.1 \sim \leq 1$

## 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
- 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)	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(mm²/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
  - 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
- 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 / ℓ 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 or 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-Propenenitrile 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)

- 2-Propenenitrile 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)

- 2-Propenenitrile 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)

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

- N,N'-ethylenedi(stearamide) : Present

U.S. Toxic Substances Control Act

Vietnam National Chemicals Inventory (NCI)

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

- 2-Propenenitrile 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

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

### 3) Revision date

- Revised date count : 2-1
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