

# Safety Data Sheet(SDS)

Last revised date : 26-12-2022

## 1. Identification

- 1) Product identifier : ASA/PMMA WX-9951M
- 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
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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-Methyl-2-propenoic acid methyl ester homopolymer	Polymethyl methacrylate	9011-14-7	$\geq 55 \sim \leq 60$
2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile	2-Propenoic acid, butyl ester, polymer with ethenylbenzene and 2-propenenitrile	26299-47-8	$\geq 40 \sim \leq 45$

## 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)	180~265°C	
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	400°C over	
Decomposition temperature	300°C over	
Viscosity(mm <sup>2</sup> /s, 40°C)	No data available	
Molecular weight(mass)	50,000 ~ 200,000 (active)	
Specific gravity	1.07 ~ 1.20	

## 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

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile  
: LD50> 5000 mg / kg experimental species: Rat, (GE Specialty Chemicals)

- Acute toxicity(Dermal) PRODUCT : Not classified

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile  
: LD50> 2000 mg / kg experimental species: Rabbit, (GE Specialty Chemicals)

- Acute toxicity(Inhalation:Gases) PRODUCT : Not classified

- 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile  
: LD50> 2000 mg / kg experimental species: Rabbit, (GE Specialty Chemicals)

- 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

- 2-Methyl-2-propenoic acid methyl ester homopolymer  
: It causes skin irritation.

### ○ Serious eye damage/eye irritation PRODUCT : Not classified

- 2-Methyl-2-propenoic acid methyl ester homopolymer  
: It causes eye irritation

### ○ Respiratory sensitization PRODUCT : Not classified

- No data available

### ○ Skin sensitization PRODUCT : Not classified

- No data available

- Carcinogenicity PRODUCT : Not classified
  - 2-Methyl-2-propenoic acid methyl ester homopolymer : 3 (IARC)
- 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
  - 2-Methyl-2-propenoic acid methyl ester homopolymer : Inhalation Irritating to pray
- 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
  - No data available
- 2) Persistence and degradability
  - No data available
- 3) Bioaccumulative potential
  - n-octanol water partition coefficient
    - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : (Not applicable)
  - 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)
  - 2-Methyl-2-propenoic acid methyl ester homopolymer : Present [21411]
  - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : Present [03745]

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-Methyl-2-propenoic acid methyl ester homopolymer : (6)-524 (listed under Polyalkyl methacrylate)
  - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : (6)-181

New Zealand Environmental Protection Authority, Inventory of Chemicals

- Inventory - New Zealand - Inventory of Chemicals (NZIoC)
  - 2-Methyl-2-propenoic acid methyl ester homopolymer : May be used as a single component chemical under an appropriate group standard
  - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : 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-Methyl-2-propenoic acid methyl ester homopolymer : Present
  - 2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile : Present

Vietnam National Chemicals Inventory (NCI)

- Inventory - Vietnam - National Chemicals Inventory (NCI) (DRAFT)
  - 2-Methyl-2-propenoic acid methyl ester homopolymer : Present 12245

## 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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