

	<b>Safety Data Sheet (SDS)</b>	Version: R0003.0001
	<b>MABS TR552F</b>	Date of issue: 1997-04-01 Revision date: 2022- 9-6 Change List: Revision of notification

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name/designation : MABS TR552F [MABS TR552F]

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

- Acrylonitrile, 1,3 Butadiene, Methyl methacrylate and Styrene copolymer

#### 1.2.2. Uses advised against

- Used for only recommended uses.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer/ Supplier : LG Chem, Ltd.  
Address : 128, Yeouui-daero, Yeongdeungpo-gu, Seoul, Korea (Zip Code : 150-721)  
Telephone : +82-2-3773-3324  
Email : webmaster@lgchem.com

### 1.4. Emergency telephone number

EU-wide emergency number : 112

See section 16.6 for the list of telephone number of poison centers in the European Economic Area.

## SECTION 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance/mixture

#### 2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

- Not applicable

### 2.2. Label elements

#### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

##### \* Hazard Pictogram(s)

- Not applicable

##### \* Signal word : Not applicable

##### \* Hazard statement(s)

- Not applicable

##### \* Precautionary statement(s)

###### 1) Prevention

- Not applicable

###### 2) Response

- Not applicable

###### 3) Storage

- Not applicable

###### 4) Disposal

- Not applicable

### 2.3. Other hazards

- Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

- Not applicable

### 3.2. Mixtures

Name	CAS No.	REACH registration No.	% [weight]	Classification [1272/2008/EC]
2-Methyl-2-propenoic acid methyl ester homopolymer	9011-14-7	-	46-56	-
2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene	9003-56-9	-	44-54	-

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General

- No general information.

#### Inhalation

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

#### Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Laundering enough contaminated clothing before reuse.

#### Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

#### Ingestion

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

- Not available

### 4.3. Indication of any immediate medical attention and special treatment needed

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray

#### Unsuitable extinguishing media

- Avoid use of water jet for extinguishing

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

- Not available

### 5.3. Advice for firefighters

- Move containers from fire area, if you can do without the risk.
- Cool containers with water until well after fire is out.
- Keep unauthorized personnel out.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Keep containers cool with water spray.
- Use fire fighting procedures suitable for surrounding area.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal Precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

- Protective equipment: Wear proper protective equipment.
- Emergency procedures: Not applicable
- If required, notify relevant authorities according to all applicable regulations.

**6.1.2. For emergency responders**

- Ventilate closed spaces before entering.
- Must work against the wind, let the upwind people to evacuate.
- Handling the damaged containers or spilled material after wearing protective equipment.

**6.2. Environmental precautions**

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.
- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

**6.3. Methods and material for containment and cleaning up****6.3.1. For containment**

- Clear spills immediately
- Control personal contact by using protective equipment.
- Clear area of personnel and move up wind.

**6.3.2. For cleaning up**

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small liquid state spills: Appropriate container for disposal of spilled material collected.
- For disposal of spilled material in appropriate containers collected and clear surface.

**6.3.3. Other information**

- Slippery when spilt.

**6.4. Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

- Comply with all applicable laws and regulations for handling
- Dealing only with a well-ventilated place.
- Operators should wear antistatic footwear and clothing.

**7.2. Conditions for safe storage, including any incompatibilities**

- Do not use damaged containers.
- Do not apply any physical shock to container.
- Keep in the original container.
- Please pay attention to incompatibilities materials and conditions to avoid.
- Prevent static electricity and keep away from combustible materials or heat sources.

**7.3. Specific end use(s)**

- See Section 1 for information on 1.2 Relevant identified uses.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limits

##### European Union (EU) Commission Directive 2006/15/EC (IOELVs)

- Not available

##### European Union (EU) Commission Directive 2006/15/EC (IOELVs) - Skin

- Not available

#### 8.1.2. Recommended Monitoring Procedures

- Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### 8.1.3. DNEL/PNEC - Values

- Not available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

- A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

#### 8.2.2. Individual protection measures, such as personal protective equipment

##### Hand protection

- Wear appropriate glove.

##### Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

##### Respiratory Protection

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Dust, mist, fume-purifying respiratory protection
- Any air-purifying respirator with a corpuscle filter of high efficiency
- Any respiratory protection with a electromotion fan(for dust, mist, fume-purifying)
- Self-contained breathing apparatus with a corpuscle filter of high efficiency
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

##### Skin protection

- Wear appropriate clothing.

##### Others

- It is necessary to wear protective clothes and other protection equipment. Cover your face, head and neck.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.

##### Thermal hazards

- Not available

#### 8.2.3 Environmental exposure controls

- Do not let product enter drains. For ecological information refer to section 12.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance(State)	Solid(Pellets)
Appearance(Color)	Colored
Odor	Almost odorless
Odor threshold	Not available
pH	Neutral

Melting point/Freezing point	200 ~220 °C
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not applicable at standard condition
Flammability(solid, gas)	Not available
Upper/Lower Flammability or explosive limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.05
Solubility	Insoluble in water, soluble in THF, acetone or other analogous solvents
Partition coefficient of n-octanol/water	Not available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

## 9.2. Other information

- Not available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

- Not available

### 10.2. Chemical Stability

- This material is stable under recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

### 10.4. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

### 10.5. Incompatible materials

- Not available

### 10.6. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Acute toxicity

- **Oral - ATE MIX : Not available**
  - [Secret] : LD50 > 5000 mg/kg (IUCLID)
  - [Secret] : LD50 > 1000 mg/kg Rat
- **Dermal - ATE MIX : Not available**
  - [Secret] : LD50 > 2000 mg/kg (IUCLID)
  - [Secret] : LD50 > 2000 mg/kg Rabbit
  - [Secret] : LD50 > 3160 mg/kg Rabbit
- **Inhalation - ATE MIX : Not available**
  - [Secret] : gas (Not applicable: Liquid)

### 11.2. Skin corrosion/irritation

- Not available

**11.3. Serious eye damage/irritation**

- Not available

**11.4. Respiratory sensitization**

- Not available

**11.5. Skin sensitization**

- Not available

**11.6. Germ cell mutagenicity**

- Not available

**11.7. Carcinogenicity****- IARC**

- Not available

**- OSHA**

- Not available

**- ACGIH**

- Not available

**- NTP**

- Not available

**- EU CLP**

- Not available

**11.8. Reproductive toxicity**

- Not available

**11.9. Specific target organ toxicity(single exposure):**

- Not available

**11.10. Specific target organ toxicity(repeated exposure):**

- Not available

**11.11. Aspiration hazard**

- Not available

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.1. Fish**

- [Secret] : LC50 > 1.5 mg/ℓ 96 hr *Oryzias latipes* (OECD TG 203, GLP, NITE)

- [Secret] : LC50 100 mg/ℓ 96 hr (IUCLID)

**12.1.2. Invertebrate**

- [Secret] : LC50 > 1.2 mg/ℓ 48 hr *Daphnia magna* (OECD TG 202, GLP, NITE)

- [Secret] : EC50 86 mg/ℓ 24 hr (IUCLID)

**12.1.3. Algae**

- [Secret] : ErC50 > 1.6 mg/ℓ 48 hr *Scenedesmus subspicatus* (EbC50 > 1.6 mg/ℓ 72 hr) (OECD TG 201, GLP, NITE)

- [Secret] : EC50 100 mg/ℓ 72 hr (IUCLID)

**12.2. Persistence and degradability****12.2.1. Persistence**

- [Secret] : log Kow 15.05 (Estimate)

- [Secret] : log Kow = 23 (25C)

**12.2.2. Degradability**

- Not available

### 12.3. Bioaccumulative potential

#### 12.3.1. Bioaccumulation

- [Secret] : BCF 3. 16 (Estimate)
- [Secret] : BCF 3. 162 (Estimate)

#### 12.3.2. Biodegradability

- [Secret] : Biodegradability = 15 (%) 28 day (IUCLID)
- [Secret] : Biodegradability = 0 (%) 4 week

### 12.4. Mobility in soil

- [Secret] : Koc = 2360000000
- [Secret] : Koc 10000000000 (Can be adsorbed in the soil, Estimates)

### 12.5. Results of PBT and vPvB assessment

- Not available

### 12.6. Other adverse effects

- Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

- Since more than two kinds of designaed waste is mixed, it is difficult to treat seperatly, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.
- The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN No.

#### 14.1.1. UN No. (ADR/RID/ADN)

- Not applicable

#### 14.1.2. UN No. (IMDG)

- Not applicable

#### 14.1.3. UN No. (ICAO)

- Not applicable

### 14.2. UN proper shipping name

- Not applicable

### 14.3. Transport hazard class(es)

#### 14.3.1. ADR/RID/ADN Class

- Not applicable

#### 14.3.2. ADR/RID/ADN Class

- Not available

#### 14.3.3. ADR Label No.

- Not applicable

#### 14.3.4. IMDG Class

- Not applicable

**14.3.5. ICAO Class/Division**

- Not applicable

**14.4. Packing group****14.4.1. ADR/RID/ADN Packing group**

- Not applicable

**14.4.2. IMDG Packing group**

- Not applicable

**14.4.3. ICAO Packing group**

- Not available

**14.5. Environmental hazards**

- Not available
- Not applicable

**14.6. Special precautions for user**

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not applicable

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulation / legislation specific for the substance or mixture****15.1.1. Europe regulatory****15.1.1.1 REACH Restricted substance under REACH**

- Not applicable

**15.1.1.2 REACH Substances subject to authorization under REACH**

- Not applicable

**15.1.1.3 REACH SVHC**

- Not applicable

**15.1.1.4 Europe PBT**

- Applicable (Secret)

**15.1.1.5 European Union (EU) Transport of Dangerous Goods by Road - Dangerous Goods List**

- Not applicable

**15.2. Chemical Safety Assessment**

- Not conducted

**SECTION 16: OTHER INFORMATION****16.1. Indication of changes**

- The Safety Data Sheet has been reviewed and the data therein were revised and laid out according the requirements of the Commission Regulation (EU) No. 453/2010

**16.2. Abbreviations and acronyms**

- 1272/2008 CLP : Classification, Labelling and Packaging regulation.
- REACH : Registration, Evaluation and authorisation of chemical substances.
- DNEL : Derive no effects level
- PNEC : Predicted no effect concentration

**16.3. Key literature references and sources for data**

- This Safety Data Sheet was compiled with data and information from the following sources: RTECS, ECOSAR, HSDB, SIDS SIAP, ChemWATCH, CESAR, Chemical DB

#### 16.4. Classification procedure

- The mixture classification has been derived based on the classification of the individual components in accordance with the rules set out in Regulation (EC) No 1272/2008 (CLP) as well as the translation tables in Annex VII to the same regulation.

#### 16.5. Training advice

- Not applicable

#### 16.6. Further information

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.
- This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.
- It should not therefore be construed as guaranteeing any specific property of the product.
- Contact a poison control centre, List of Telephone Numbers : AUSTRIA (Vienna Wien) +43 1 406 43 43; BELGIUM (Brussels Bruxelles) +32 70 245 245; BULGARIA (Sofia) +359 2 9154 409; CZECH REPUBLIC (Prague Praha) +420 224 919 293; DENMARK (Copenhagen) 82 12 12 12; ESTONIA (Tallinn) 112; FINLAND (Helsinki) +358 9 471 977; FRANCE (Paris) +33 1 40 0548 48; GERMANY (Berlin) +49 30 19240; GREECE (Athens Athina) +30 10 779 3777; HUNGARY (Budapest) 06 80 20 11 99; ICELAND (Reykjavik) +354 525 111, +354 543 2222; IRELAND (Dublin) +353 1 8379964; ITALY (Rome) +39 06 305 4343; LATVIA (Riga) +371 704 2468; LITHUANIA (Vilnius) +370 5 236 20 52 or +370 687 53378; MALTA (Valletta) 2425 0000; NETHERLANDS (Bilthoven) +31 30 274 88 88; NORWAY (Oslo) 22 591300; POLAND (Gdansk) +48 58301 65 16 or +48 58 349 2831; PORTUGAL (Lisbon Lisboa) 808 250 143; ROMANIA (Bucharest) +40 21 3183606 SLOVAKIA (Bratislava) +421 2 54 77 4166; SLOVENIA (Ljubljana) + 386 41 650 500; SPAIN (Barcelona) +34 93 227 98 33 or +34 93 227 54 00 bleep 190; SWEDEN (Stockholm) 112 or +46 8 33 12 31 (mon-fri 9.00- 17.00); UNITED KINGDOM (London) 112 or 0845 4647 (NHS Direct).