# Material Safety Data Sheet (MSDS)

## Grade: MABS TR557

<table>
<thead>
<tr>
<th>Document ID</th>
<th>MABS TR557</th>
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<tbody>
<tr>
<td>Issued Date</td>
<td>1997. 4. 2</td>
</tr>
<tr>
<td>Revised Date</td>
<td>2011. 9. 5</td>
</tr>
<tr>
<td>Page</td>
<td>1 of 5</td>
</tr>
</tbody>
</table>

## 1. Chemical Product & Company Identification

<table>
<thead>
<tr>
<th>a. Chemical Product Name</th>
<th>Acrylonitrile, 1,3 Butadiene, Methyl methacrylate and Styrene Co-polymer</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. Usage</td>
<td>Electronic Goods, Automotive Parts, Package, etc</td>
</tr>
<tr>
<td>c. Chemical Type</td>
<td>Thermoplastics</td>
</tr>
</tbody>
</table>
| d. Company's Address     | LG Chem, Ltd.  
                          | 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Korea |
| e. Phone Number          | 82-2-3773-3324, 3985 / 82-2-3773-3310 |
| f. Prepared By           | ABS / EP Division |

## 2. Hazards Identification

<table>
<thead>
<tr>
<th>a. Threshold Limit</th>
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</thead>
<tbody>
<tr>
<td>b. Effect of overexposure</td>
</tr>
<tr>
<td>• Eye Contact</td>
</tr>
<tr>
<td>• Skin Contact</td>
</tr>
<tr>
<td>• Skin Absorption</td>
</tr>
<tr>
<td>• Ingestion</td>
</tr>
</tbody>
</table>
| • Inhalation        | Dust may cause irritation to respiratory  
                          | In case of breathing, fumes released from heated material may cause respiratory irritation |
| • Chronic Effects   | Not Available |
| • Mutagenicity      | Not Available |

## 3. Composition / Information On Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>9011-14-7</td>
<td>52 ~ 65 %</td>
</tr>
<tr>
<td>9003-56-9</td>
<td>33 ~ 48 %</td>
</tr>
<tr>
<td>9003-56-9</td>
<td>0 ~ 1 %</td>
</tr>
<tr>
<td>9003-56-9</td>
<td>0 ~ 1 %</td>
</tr>
</tbody>
</table>
4. First Aid Measures

a. Eye Contact
   Immediately rinse eyes with copious amount of running water and seek medical advice

b. Skin Contact
   Essentially nonirritating to skin but rinse with copious water

c. Ingestion
   If vomiting occurs, lower the head to ease vomiting and seek medical advice

d. Inhalation
   In case of breathing, fumes released from heated material may cause respiratory irritation
   In case of inhaling dense smoke, immediately remove a person to fresh air. If necessary, apply artificial respiration and seek medical attention immediately

e. Mutagenicity
   Not Available

5. Fire Fighting Measures

a. Flammable Properties
   • Flash Point: None
   • Method Used: Not applicable
   • Auto ignition Temperature: Not applicable

b. Extinguishing Media
   Usually use water and use extinguishing media appropriate to surrounding conditions

c. Special Fire Fighting Procedure
   Cool Containers with water spray. In closed stores, provide fire fighter with self-contained breathing apparatus in positive pressure mode

d. Usual Fire and Explosion Hazards
   Irritating gases and dense smoke

6. Accidental Release Measures

a. Personal Precautions
   Pellets or beads may present a slipping hazard

b. Environmental Precautions
   Keep out of irrigation ditches, sewers, and water supplies
   Spills should be collected to prevent contamination of waterways

c. Cleanup
   Sweep up
7. Handling and Storage
   a. Handling  
      Avoid formation of dust
      Keep bags always closed / Keep container lightly closed
      Avoid pellets / bags from getting wet
   
   b. Storage  
      Keep bags / containers in a well-ventilated place
      Avoid pellets / bags from getting wet

8. Exposure Controls / Personal Protection
   a. Engineering Controls  
      Good general ventilation should be sufficient for most conditions.
      Local exhaust ventilation may be necessary for some operations
   
   b. Personal Protective Equipment
      • Eye / Face Protection  
        Use safety glasses. If the is a potential for exposure to particles which
        Could cause mechanical injury to the eye, wear chemical goggles
      • Skin Protection  
        No Precautions other than clean body-covering clothing should be needed
      • Respiratory Protection  
        For most conditions, no respiratory protection should be needed; however,
        If handling at elevated temperatures without sufficient ventilation, use an
        approved air-purifying respirator. In dusty atmospheres, use an approved
        dust respirator
   
   c. Exposure Guideline(s)  
      Although some of the additives used in this product may have exposure
      guidelines, these additives are encapsulated in the product and
      no exposure would be expected under normal handling conditions

9. Physical And Chemical Properties
   a. Appearance  
      Pellet (Colored solid)
   b. Odor  
      Almost Odorless
   c. pH  
      Neutral
   d. Boiling Point  
      Not applicable
   e. Evaporation Rate  
      Not applicable at standard condition
   f. Specific Gravity  
      1.09
   g. Vapor Pressure  
      Not applicable at standard condition
   h. Vapor Density  
      Not applicable at standard condition
   i. Solubility in Water  
      insoluble
   j. Solubility in other Solvent  
      Soluble in THF, Acetone and other Analogous Solvents
10. Stability and Reactivity

a. Stability
Stable under normal condition

b. Storage conditions to avoid
Avoid fire and heating above 60 °C

c. Incompatibility
None known

d. Hazardous decomposition products
Not applicable

e. Hazardous polymerization
Not occur

11. Toxicological Information

See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or phone number shown in Section 1.

12. Ecological Information

a. Environmental Fate

  • Movement & Partitioning
    No bioconcentration is expected because of the high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

  • Degradation & Persistence
    This water insoluble polymeric solid is expected to the inert in the environment. Surface degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

b. Ecotoxicity
Not Expected to be acutely toxic, but pellets, if ingested by waterfowl or aquatic life, may mechanically cause adverse effects.

13. Disposal Considerations

Disposal: Do not Dump into any sewers, on the ground, or into any body of water.
All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with appliance laws are the responsibility solely of the waste generator.

For unused & uncontaminated product, the preferred options include sending to a licensed, permitted recycler, reclaim, incinerator or other thermal destruction device.
14. Transport Information
Not classified as hazardous under transport regulations.

15. Regulatory Information
Listed below are chemical substances subject to supplier notification requirements.

U.S. REGULATIONS:
TSCA INVENTORY STATUS: This product complies with the Chemical Substance Inventory requirements of the US EPA TSCA.
CERCLA SECTION 103 (40 CFR 302.4): Not Listed
SARA SECTION 313 (40 CFR 372.65): Not Listed
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40 CFR 370.21)
ACUTE: Not Listed
CHRONIC: Not Listed
FIRE: Not Listed
REACTIVE: Not Listed
SUDDEN RELEASE: Not Listed

STATE REGULATIONS:
California Proposition 65: Not Listed

EUROPEAN REGULATIONS:
EC NUMBER: Not assigned

This product complies with the requirements of resolution of European Parliament (WE) no. 1907/2006 Dated December 18 2006 concerning REACH (European Union Official Register L396 with its changes In EU Official Register no. L136)

16. Other Information
Product should be handled, stored, and used in accordance with the generally accepted industrial hygiene practices and in conformity with all the applicable legal regulations.
The information provided herein is based on the knowledge possessed at this present time from the view point of safety requirements.
It should, therefore, not be construed as guaranteeing specific properties.