



# Material Safety Data Sheet (MSDS)

Grade : MP-211 ABS Resin

Document ID	ABS – MP211
Issued Date	1997.04.12
Revised Date	2005.01.01
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## 1. Chemical Product & Company Identification

a. Chemical Product Name	Acrylonitrile, 1,3 Butadiene, and Styrene Co-polymer
b. Usage	Electronic Goods, Automotive Parts, Package, etc
c. Chemical Type	Thermoplastics
d. Company's Address	LG Chem, Ltd. 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Korea
e. Phone / Fax number	82-2-3773-3324, 3985 / 82-2-3773-3310
f. Prepared By	ABS / PS Division

## 2. Composition / Information On Ingredients

	CAS Number	Contents
a. Heat resistant ABS (Acrylonitrile-Butadiene-Styrene)	9003-3-56-9	97-100%
b. Typical antioxidant		0 - 1%
c. Typical lubricants		0 - 2%

## 3. Hazards Identification

a. Threshold Limit	
b. Effect of overexposure	
• Eye Contact	Solid or dust may cause irritation or corneal injury due to mechanical action
• Skin Contact	Essentially nonirritating to skin, Mechanical injury only
• Skin Absorption	Unlikely due to physical properties
• Ingestion	Unlikely due to physical state.
• 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



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## 4. First AID

- 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 for 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



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## 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 there 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                               1.05
- 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



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## 10. Stability and Reactivity

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| a. Stability                        | Stable under normal condition   |
| b. Storage conditions to avoid      | Avoid fire and heating above 60 |
| 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 be 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, reclaimer, incinerator or other thermal destruction device.



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## 14. Transport Information

Not classified as hazardous under transport regulations.

## 15. 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.