

# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product & Manufacturer's Information

- **a. Chemical Product Name** HI-MACS®
- **b. Usage** Countertops, other solid surface applications
- **c. Chemical Type** Acrylic Solid Surface
- **d. Manufacturer** LG Twin Towers 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 Korea
- **e. In Case of Emergency** Tel: (82)43-261-7439, 7438

## 2. Ingredients

Name	CAS Number	% by Weight	TLV/PEL	LC50/LD50
Alumina trihydrate	21645-51-2	52-62	15mg/m <sup>3</sup> OSHA PEL; 10mg/m <sup>3</sup> ACGIH TLV	Not available
Butyle Acrylate-methyl methacrylate	25852-37-3	30-50	Not available	Not available
Copolymer colorants	Not available	1-5	Not available	Not available

## 3. Health Hazard Data

The product is a solid sheet of varying color and, as such, has no health hazards associated with it.

However, dust generated from cutting, sanding, or routing may cause mechanical irritation to the skin, eyes and respiratory tract.

- **a. Eyes** Dust generated during fabrication may irritate eyes.
- **b. Skin** Any sharp edges will cut or abrade the skin. Dust generated by fabrication may cause skin sensitization.  
(Methyl Methacrylate has been shown to cause allergic responses at high concentrations.)
- **c. Respiratory Tract** Dust generated during fabrication may cause irritation to respiratory tract, characterized by sneezing and coughing.  
May cause headache in case of long term exposure.

## 4. First Aid Measures

- **a. Eye contact** Upon contact with nuisance dust particles, flush eyes immediately with large amounts of water for a minimum of 15 minutes. Seek medical attention.
- **b. Skin Contact** Not expected to be a problem. May cause skin sensitization.  
Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.

- **c. Inhalation** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.  
Allow the victim to rest in a well ventilated area.  
Oxygen may be administered if breathing is difficult. Seek medical attention.
- **d. Ingestion** Not applicable.

## 5. Fire and Explosion Data

- **a. Flammability** Non-flammable
- **b. Flash Point** Not available
- **c. Auto-Ignition Temperature** Not available
- **d. Products of Combustion** Some metallic oxides.
- **e. Fire Hazards in Presence of Various Substances** Non-flammable in presence of shocks, heat, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
- **f. Explosion Hazards in Presence of Various Substances:** Not considered as a risk of explosion.
- **g. Fire Fighting Media:** SMALL FIRE: use DRY chemicals, COO, water spray or foam  
LARGE FIRE: use water spray, fog, or foam.  
DO NOT use water jet.

## 6. Spill Procedures & Waste Disposal

- **a. Small Spill** Use appropriate tools to put the spilled solid in a convenient waste disposal container.
- **b. Large Spill** No additional information
- **c. Waste Disposal** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

## 7. Handling, Storage & Transport

- **a. Handling** Do not breathe dust. If user operations generate dust, use ventilation to keep airborne contaminants below the exposure limit.
- **b. Storage** No specific storage is required. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.
- **c. DOT/TDG Classification** Not a DOT controlled material

## 8. Special Protection Information

- **a. Eye** Safety glasses
- **b. Hands** Gloves to protect against cuts and abrasions are highly recommended.
- **c. Respirator** Wear appropriate respirator when ventilation is inadequate (NIOSH approved) because of generated dust.

## 9. Physical & Chemical Properties

- **a. Appearance**Solid
- **b. Odor**Odorless
- **c. pH**Not applicable
- **d. Specific Gravity**1.75
- **e. Evaporation Rate**Not available
- **f. Vapor Pressure**Not available
- **g. Solubility in Water**Insoluble
- **h. Solubility in Solvents**Insoluble in methanol, diethyl ether, n-octanol, acetone

## 10. Stability & Reactivity Data

- **a. Stability**The product is stable
- **b. Chemical Instability/Materials to Avoid**Not considered to be reactive according to our database
- **c. Corrosivity**Not considered to be corrosive for metals and glass according to our database
- **d. Hazardous Decomposition**Not available
- **e. Hazardous Polymerization**Yes

## 11. Potential Chronic Health Effects

The product is NOT toxic to blood, kidneys, lungs, the nervous system, the reproductive system, liver, or mucous membranes.

- **a. Chronic Effects**Not available
- **b. Mutagenic Effects**Not available
- **c. Teratogenic Effects**Not available

## 12. Ecological Information

- **a. Ecotoxicity Not**Not available
- **b. BODS and COD**Not available
- **c. Toxicity of the Products of Biodegradation**Not available

## 13. Federal Regulations

- **a. TSCA (Toxic Substance Control Act)**All components of this product are listed on the TSCA inventory
- **b. HMIS (Hazardous Material Information System)**Health Hazard : 1  
Fire Hazard : 0  
Reactivity : 0  
Personal Protection : A
- **c. National Fire Protection Association (USA)**Hazard Rating : 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Minimal (Insignificant)



#### 14. Other Information

The data contained in this MSDS and recommendations presented herein are based upon information considered to be accurate, as of this date. However, LG Hausys makes no guarantee or warranty, either expressed or implied, of the completeness of this data and recommendations, and assumes no liability in connection with any use of this information.