



HI-MACS[®]

Acrylic Solid Surface

HI-MACS[®] Interior Solid Surface Material Safety Technical Data Sheet

SECTION 1: CHEMICAL PRODUCT AND MANUFACTURER'S INFORMATION

- 1.1 **Chemical Product Name:**
HI-MACS[®]
- 1.2 **Usage:**
Interior building material and furniture applications
- 1.3 **Manufacturer:**
LG Hausys, Oksan Plant
9, Oksansandan 3-ro, Hungduk-gu,
CHEONGJU CITY, CHUNGBUK 361-912,
KOREA
Tel: +82-43-716-7268
FAX: +82-43-716-7297
- 1.4 **In Case of Emergency:**
Tel: +82-2-6930-0825

SECTION 2: COMPOSITION AND INFORMATION OF INGREDIENTS

INGREDIENTS	CAS NUMBER	MAX. CONTENT (%)
Acrylic Polymer	9011-14-7	35 ~ 45
Hydrated Alumina Aluminum Hydroxide Aluminum Trihydroxide	21645-51-2	55 ~ 65

SECTION 3: HEALTH HAZARD DATA

- 3.1 The product is a solid surface 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.
- 3.2 **Eyes:** Dust generated during fabrication may irritate eyes.
- 3.3 **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.)
- 3.4 **Respiratory Tract:** Dust generated during fabrication may causes irritation to respiratory tract, characterized by sneezing and coughing. May also cause headache in case of long term exposure.

SECTION 4: FIRST AID

- 4.1 **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.
- 4.2 **Skin contact:** Not expected to be a problem. It may cause skin sensitization. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.
- 4.3 **Ingestion:** Not applicable.

SECTION 5: FIRE AND EXPLOSION DATA

- 5.1 **Flammability:** Non-flammable
- 5.2 **Flash Point:** not available
- 5.3 **Auto ignition temperature:** Not available
- 5.4 **Products of combustion:** Some metallic oxides
- 5.5 **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.
- 5.6 **Fire Fighting Media:** Use dry chemicals, CO₂, Water spray or foam. Extinguishing Media must not be used for safety reason; high volume water jet.

SECTION 6: SPILL PROCEDURES AND WASTE DISPOSAL

- 6.1 Review Federal, provincial or State and Local government requirements prior to disposal. Store material for disposal as indicated in storage conditions. Disposal by controlled incineration may be accepted.
- 6.2 **Waste-Key-codes according to EU regulations:** 12 01 05 plastic chips / 17 02 03 Plastics // 15 01 03 Packaging wooden pallets.

SECTION 7: HANDLING AND STORAGE

- 7.1 **Handling:** Do not breathe dust. If user operations generating dust, use ventilation and exhaust extraction system to keep airborne contaminants below the exposure limit.
- 7.2 **Storage:** No specific storage is required. Be sure that it is not necessary to strain to reach materials and that shelves are not overloaded.
- 7.3 **DOT/TDG classification:** Not a DOT controlled material.

SECTION 8: SPECIAL PROTECTION INFORMATION

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

SECTION 9: FIRE AND EXPLOSION DATA

- 9.1 **Appearance:** Solid
- 9.2 **Odor:** Odorless
- 9.3 **pH:** Not applicable
- 9.4 **Specific Gravity:** 1.75
- 9.5 **Evaporation Rate:** Not available
- 9.6 **Vapor Pressure:** Not available
- 9.7 **Solubility in water:** Insoluble
- 9.8 **Solubility in solvents:** Insoluble in methanol, diethyl ether, n-octanol, acetone

SECTION 10: STABILITY AND REACTIVITY

- 10.1 **Stability:** Stable
- 10.2 **Chemical instability/Materials to avoid:** Not considered to be reactive according to our database.
- 10.3 **Corrosivity:** Not considered to be corrosive for metals and glass according to our data-base.
- 10.4 **Hazardous decomposition:** Not available
- 10.5 **Hazardous polymerization:** May occur

SECTION 11: POTENTIAL CHRONIC HEALTH EFFECTS

- 11.1 The product is not toxic to blood, kidneys, lungs, the nervous system, the reductive system, liver, or mucous membranes.
- 11.2 **Chronic effects:** No data available
- 11.3 **Mutagenic effects:** No data available
- 11.4 **Teratogenic effects:** No data available

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 **Eco-toxicity:** Not applicable
- 12.2 **BODS and COD:** Not applicable
- 12.3 **Toxicity of the products of biodegrading:** Not applicable

SECTION 13: FEDERAL REGULATIONS

- 13.1 **TSCA (Toxic Substance Control Act):**
All components of the product are listed on the TSCA inventory.
- 13.2 **HMIS (Hazardous Material Information System):** Health hazard – 1, Fire hazard – 0, Reactivity – 0, Personal Protection – A

SECTION 14:

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the test.

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