

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : HI-MACS ACRYLIC SINK

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

Identified use : Appliance

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Martktec, Inc.

1311 Needham Drive
Dalton, GA 30720
Website: www.marktecusa.com
Tel: 706-529-4818

Supplier:

LG Hausys America, Inc.

900 Circle 75 Parkway, Suite 1500
Atlanta, GA 30339
Tel: 678-486-8250

1.4. Emergency telephone number

Emergency number : 866-544-4622 (LG HSAI)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification[†]

Comb. Dust H232
Skin Sens. 1 H317

Full text of H-statements: see section 16

2.2. Label elements

Labelling

This product meet the criteria of article definition and therefore is exempt from labeling.

2.3. Other hazards

Hazards not thoeirwise identified

: HI-MACS ACRYLIC SINK is not hazardous and does ot pose physical hazards and /or health risk as supplied or shipped. However, operations such as sawing, routing, drilling and sanding can generate dust. High concentrations of dust can cause reversible physical irritation to eyes, nose and respiratory passages and cause coughing and sneezing. Even though there are no exposure limits established for dust from HI-MACS ACRYLIC, avoid breathing dust.

HI-MACS ACRYLIC SINK does not release any gas or vapors at ambient conditions. At higher temperatures (>300°C / 572°F), small amounts of methyl methacrylate (MMA) could be released, amount dependent upon temperature, time and other variables. Vapors at high concentration can cause skin and respiratory irritation. Overexposure to vapors can cause headache, nausea, weakness and lung irritation with cough, discomfort and shortness of breath. Individuals with pre-existing diseases of the lungs or skin may have increased susceptibility to the effects of overexposure to methyl methacrylate.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

CAS number is not available for this substance (Article)

[†] This product meets the criteria of article definition and does not pose any physical hazards and health risk as supplied.

| Name | Product identifier | % |
|---|------------------------|---------|
| Aluminium hydroxide (component) | (CAS No) 21645-51-2 | 60 - 65 |
| Methyl methacrylate polymer (component) | (CAS No) 9011-14-7 | 30 - 35 |
| Methyl methacrylate (component) | (CAS No) 80-62-6 | < 1 |
| Copolymer colorants (component) | (CAS No) Not available | < 1 |

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Inhalation is unlikely a route of exposure at ambient temperature.
In case of inhalation of dust or vapor from processing: Allow breathing of fresh air. Allow the victim to rest. Consult a physician if breathing is difficult or if symptoms persist.
- First-aid measures after skin contact : Unlikely a route of exposure as supplied. In case of generation of dust or vapor from processing: Wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Unlikely a route of exposure as supplied. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Unlikely a route of exposure as supplied. Rinse mouth. Obtain emergency medical attention.

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

- Symptoms/injuries after inhalation : May cause an allergic skin reaction.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Not a flammable solid, but can burn. Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray.
- Unsuitable extinguishing media : None known

5.2. Special hazards arising from the substance or mixture

- Fire hazard : The product is not flammable but burns.
- Explosion hazard : Avoid generation of dust; fine dust dispersed in air in sufficient concentration, and in the presence of an ignition source is a potential dust explosion hazard.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling objects. Exercise caution when fighting any chemical fire.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : In case of generation of dust from processing: Spills of this product as dust, present a serious slipping hazard.
Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use appropriate PERSONAL PROTECTIVE EQUIPMENT and recover undamaged and minimally contaminated material for reuse and reclamation.

Emergency procedures : In case of generation of dust from processing: Ventilate area.

6.2. Environmental precautions

Contain according to the local, state, National regulation.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : In case of generation of dust or vapor from processing: Review HANDLING Section before proceeding with clean up. Use appropriate tools to put spilled solids in a convenient waste disposal container. Review FIRE FIGHTING MEASURES and HANDLING Sections before proceeding with clean up.

Avoid contact with skin and eyes. Avoid breathing dust and vapors. On land, sweep or shovel into suitable containers. Minimize generation of dust. Avoid raising airborne dust. Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air). Non-sparking tools should be used.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : In case of generation of dust from processing: This product presents a serious slipping hazard.

Precautions for safe handling : Processing/ Machining: Avoid breathing dust. Avoid breathing fumes generated during heating. Temperatures reached while thermoforming could be high enough to release some methyl methacrylate. Machining operations during fabrication, such as sawing, sanding or routing, create friction and may result in temperatures high enough to release small amounts of methyl methacrylate at the cutting tool surface. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising airborne dust. Avoid contact with skin and eyes. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build statics electricity charges when subjected to the friction of transfer and mixture operations. Provide adequate precautions, such as electrical grounding and bonding or inert atmospheres.

Hygiene measures : In case of generation of dust from processing: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No specific storage is required. Store in well-ventilated area. Avoid high temperature. Do not over-stock.

Incompatible materials : No additional information available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters[‡]

| Methyl methacrylate (80-62-6) | | |
|--------------------------------------|-------------------------------------|-----------------------|
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| ACGIH | ACGIH STEL (ppm) | 100 ppm |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 410 mg/m ³ |

[‡] The work place exposure limits are not applicable to products as is supplied. The provided work place limits shall considered during processing resulting to generation of dust and/or vapors.

| Methyl methacrylate (80-62-6) | | |
|---|---|--|
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| Aluminium hydroxide (21645-51-2) | | |
| OSHA | OSHA PEL (TWA) (mg/m ³) Aluminum | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| ACGIH | ACGIH TWA (mg/m ³) Aluminum | 1 mg/m ³ (respirable fraction) |

8.2. Exposure controls

Appropriate engineering controls

- : No special engineering control is required for product as supplied.
- Use adequate ventilation to keep employee exposures to airborne concentrations below recommended limits for dust or vapors from operations such as machining, cutting, routing, sanding, etc. In addition, provide for appropriate exhaust ventilation and dust collection at machinery.
- In case of generation of dust or vapour from processing: It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

- : In case of generation of dust or vapour from processing:
Safety glasses. Gloves. Protective clothing. Respiratory protection.



Skin and body protection

- : Wear leather or cotton gloves when handling. Safety shoes are also recommended. Hearing protection may also be required during machining operations, depending on noise (decibel) levels.

Eye protection

- : Wear safety glasses during operations such as sawing, sanding, drilling, or routing. Also, machining operations could require safety goggles and face-shield to protect against flying debris/particles.

Respiratory protection

- : In case of insufficient or inadequate ventilation during machining operations or if airborne particulate concentrations or vapors are expected to exceed permissible exposure limits, use a NIOSH approved air-purifying respirator. Respirators should be selected based on the form and concentration of the air contaminant and in accordance with OSHA Respiratory Protection Standard(s).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Bowl/ Sink |
| Color | : Varies |
| Odor | : None / Odorless |
| Odor threshold | : Not applicable |
| pH | : No applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : Not applicable |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |

| | |
|----------------------------------|------------------------|
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : Not applicable |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.6 – 1.8 (Water=1) |
| Solubility | : Not soluble in water |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at normal temperatures and storage conditions.

10.3. Possibility of hazardous reactions

Polymerization will not occur in solid state.

10.4. Conditions to avoid

Extremely high temperatures.

10.5. Incompatible materials

None reasonably foreseeable, non-corrosive.

10.6. Hazardous decomposition products

Frictional heat from machining that could reach or exceed a temperature of 300°C (572°F) could result in the release of a small amount of methyl methacrylate vapor.

Thermal Decomposition products: carbon oxides, methyl methacrylate and smoke.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Methyl methacrylate (80-62-6) | |
|--------------------------------------|---------------------------|
| LD50 oral rat | 7900 mg/kg |
| LC50 inhalation rat (ppm) | 4632 ppm/4h |
| ATE US (oral) | 7900.000 mg/kg bodyweight |
| ATE US (gases) | 4632.000 ppmv/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

| Methyl methacrylate (80-62-6) | |
|--------------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| | |
|--|------------------|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| Methyl methacrylate (80-62-6) | |
|-------------------------------|--|
| LC50 fish 1 | 243 - 275 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 69 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 125.5 - 190.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

12.2. Persistence and degradability

Not established.

12.3. Bioaccumulative potential

Not established.

| Methyl methacrylate (80-62-6) | |
|-------------------------------|-----|
| Log Pow | 0.7 |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Preferred waste disposal options include recycling, landfill, or incineration, when in compliance with applicable Federal, State/Provincial, and Local regulations.

SECTION 14: Transport information

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.
Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|---------------------|----------------|------|
| Methyl methacrylate | CAS No 80-62-6 | <= 1 |
|---------------------|----------------|------|

Methyl methacrylate (80-62-6)

Listed on United States SARA Section 313

| | |
|---------------------------------------|-------|
| SARA Section 313 - Emission Reporting | 1.0 % |
|---------------------------------------|-------|

15.2. International regulations

CANADA

No additional information available

Methyl methacrylate polymer (9011-14-7)

Listed on the Canadian DSL (Domestic Substances List)

| | |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|---|

Methyl methacrylate (80-62-6)

Listed on the Canadian DSL (Domestic Substances List)

| | |
|----------------------|--|
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|--|

EU-Regulations

No additional information available

Methyl methacrylate (80-62-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

Methyl methacrylate polymer (9011-14-7)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Methyl methacrylate (80-62-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
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Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists). ATE - acute toxicity estimate. CAS (Chemical Abstracts Service) number. CLP - Classification, Labelling and Packaging. HCS - Hazard Communication Standard. IARC (International Agency for Research on Cancer). OSHA - Occupational Safety and Health Administration. Overland transport (ADR). STEL- Short-Term Exposure Limit. TLV- Threshold Limit Value. TWA- Time Weighted Average. TSCA - Toxic Substance Control. European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. European Agreement concerning the International Carriage of Dangerous Goods by Road. Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. International Agency for Research on Cancer. Median effective concentration. International Air Transport Association. Median lethal concentration. Median lethal dose.

Other information : Refer to NFPA 654, *Standard for the Prevention of Fire and Dust explosions from the Manufactureing, Processing, and Handling of Combustible Particulate Solids*, for safe handling.

Full text of H-statements:

| | |
|--------------|---|
| Comb. Dust | Combustible dust |
| Skin Sens. 1 | Sensitisation — Skin, category 1 |
| H232 | May form combustible dust concentrations in air |
| H317 | May cause an allergic skin reaction |

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.