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

## 1.1. Product identifier

**Trade name:** Bestone® Solid Surface

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

**Identified use:** Surfacing and shaped articles

## 1.3. Details of the supplier of the safety data sheet

**Manufacturer:**
Lafex S.A. de C.V.
Abel Salgado 55 C, Lomas del Colli, Zapopan.
CP 45037, Jalisco, Mexico
Tel: 011 52 33 1253 7200

**Distributor:**
Lafex LLC
6130 Elton Av. PMB418
Las Vegas, NV 89107, USA

## 1.4. Emergency telephone number

**Emergency number:** 011 52 33 1253 7200
Mon – Fri (9:00 AM – 6:00 PM CST)

# 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 meets the criteria of article definition and therefore is exempt from labeling.

## 2.3. Other hazards

**Hazards not otherwise identified:**

- Bestone® Solid Surface sheet is not hazardous and does not 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 Bestone® Solid Surface sheet, avoid breathing dust.

- Bestone® Solid Surface sheet 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

**Not applicable**

† This product meets the criteria of article definition and does not pose any physical hazards and health risk as supplied.
SECTION 3: Composition/information on ingredients

3.1. Substance
CAS number is not available for this substance (Article)

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium hydroxide (component)</td>
<td>(CAS No) 21645-51-2</td>
<td>55 - 60</td>
</tr>
<tr>
<td>Polyester polymer (component)</td>
<td>(CAS No) Not available</td>
<td>40 - 45</td>
</tr>
<tr>
<td>Methyl methacrylate (component)</td>
<td>(CAS No) 80-62-6</td>
<td>0.10 – 0.15</td>
</tr>
</tbody>
</table>

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.


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

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 hazards.

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 vapours. 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

<table>
<thead>
<tr>
<th>Methyl methacrylate (80-62-6)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>50 ppm</td>
</tr>
<tr>
<td>ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>100 ppm</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>410 mg/m³</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aluminium hydroxide (21645-51-2)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>15 mg/m³ (total dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>1 mg/m³ (respirable fraction)</td>
</tr>
</tbody>
</table>

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.


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

<table>
<thead>
<tr>
<th>Physical state</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Sheets and Shaped Articles</td>
</tr>
<tr>
<td>Color</td>
<td>Varies</td>
</tr>
<tr>
<td>Odor</td>
<td>None / Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>No applicable</td>
</tr>
</tbody>
</table>

‡ The workplace exposure limits are not applicable to products as supplied. The provided workplace limits shall be considered during processing resulting in generation of dust and/or vapors.
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)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>7900 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>4632 ppm/4h</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>7900.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>4632.000 ppmv/4h</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>IARC group</th>
<th>3 - Not classifiable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
</tbody>
</table>

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.

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

12.2. Persistence and degradability
Not established.

12.3. Bioaccumulative potential
Not established.

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.

<table>
<thead>
<tr>
<th>Methyl methacrylate</th>
<th>CAS No 80-62-6</th>
<th>&lt;= 1</th>
</tr>
</thead>
</table>

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 IECSG (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)
 Listed on IECSG (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)
 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
Abbreviations and acronyms:


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.

<table>
<thead>
<tr>
<th>H-statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comb. Dust</td>
<td>Combustible dust</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, category 1</td>
</tr>
<tr>
<td>H232</td>
<td>May form combustible dust concentrations in air</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
</tbody>
</table>

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.