

**MATERIAL SAFETY DATA SHEET (M.S.D.S.)****COMPANY DETAILS**

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**IDENTIFICATION**

**Product Name:** Mirostone 20mm solid surface

**PHYSICAL & CHEMICAL PROPERTIES**

**% Volatiles:** 0% at room temperature  
**Solubility in Water:** Insoluble  
**Form:** 20mm solid sheet  
**Specific Gravity:** 1.74 +/- 0.2

**INGREDIENTS**

**Material:** "Acrylic Modified unsaturated polyester polymer" 35-45% Cas, Number ; Mixture  
"Hydrated Alumina, Aluminium Hydroxide, Aluminium Tri-hydroxide" 55-65 % Cas, Number 21645512

**Exposure limits may be applicable for the following:**

Methyl Methacrylate <1  
Butyl Acrylate <1  
Polyester Polymer <1  
Hydrated Alumina <1  
Aluminium Hydroxide <1  
Aluminium Tri-hydroxide <1

**Components (Remarks):**

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372

**HEALTH HAZARD INFORMATION****POTENTIAL HEALTH EFFECTS****Information:**

"Mirostone" Solid Surface Material is not hazardous as shipped. However, operations such as sawing, routing, drilling and sanding can generate dust. High concentrations of dust can irritate eyes, nose and respiratory passages and cause coughing and sneezing. Since there are no exposure limits established for dust from "Mirostone" Solid Surface Material, Amorini recommends using the exposure limits for Polyester Polymer, Hydrated Alumina, Aluminium Hydroxide, Aluminium Tri-hydroxide, Methyl Methacrylate, Butyl Acrylate.

Please see details in the **Personal Protection/Exposure Control** Section of this MSDS.

"Mirostone" Solid Surface Material does not off gas at room temperature. At higher temperatures, small amount of Polyester Polymer, Hydrated Alumina, Aluminium Hydroxide, Aluminium Tri-hydroxide, Methyl Methacrylate, Butyl Acrylate can be released, the amounts of which are dependent upon temperature, time and other variables.

Individuals with pre-existing diseases of the lungs or skin may have increased susceptibility to the effects of overexposure to Polyester Polymer, Methyl Methacrylate, Butyl Acrylate.

**HEALTH HAZARD INFORMATION**

Polyester Polymer, Hydrated Alumina, Aluminium Hydroxide, Aluminium Tri-hydroxide, Methyl Methacrylate, Butyl Acrylate

**Carcinogenicity Information:**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IAR, NTP, OSHA or ACGIH as a carcinogen.

**FIRST AID****Inhalation:**

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. However, if large amounts of dust are inhaled, or if exposed to fumes from overheating or combustion, remove to fresh air. Consult a physician if breathing is difficult or if symptoms persist.

**Contact with Skin:**

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

**Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**Ingestion:**

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

**HEALTH HAZARD INFORMATION****PERSONAL PROTECTION & EXPOSURE CONTROLS****Engineering Controls:**

Use ventilation that is adequate to keep employee exposure to airborne concentrations below recommended limits. Provide for appropriate exhaust ventilation and dust collection at machinery.

**Eye/Face Protection:**

Wear safety glasses during operations such as sawing, Sanding, drilling or routing.

**Respirators:**

During grinding, sanding or sawing operations, if airborne particulate concentrations are expected to exceed permissible exposure limits, use a half face NIOSH approved air purifying respirator with type N100 filter. Respirators should be selected based on the form and concentrations of the contaminant in air and in accordance with OSHA Respiratory Protection Standard CFR 1910.134.

**Protective Clothing:**

Wear leather or cotton gloves when handling large pieces and during operations such as sawing, routing or drilling.

**EXPOSURE GUIDELINES****Exposure Limits "Mirostone" Solid Surface Material:**

Polyester Polymer, Hydrated Alumina, Aluminium Hydroxide, Aluminium Tri-hydroxide, Methyl Methacrylate, Butyl Acrylate

10 mg/m<sup>3</sup>, 8 hr. TWA, total dust

5 mg/m<sup>3</sup>, 8 hr. TWA, respirable dust

**PEL (OSHA):**

Particulates (Not Otherwise Regulated)

15 mg/m<sup>3</sup>, 8 hr. TWA, total dust

5 mg/m<sup>3</sup>, 8 hr. TWA, respirable dust

**TLV (ACGIH):**

Particulates (Insoluble) not otherwise classified

10 mg/m<sup>3</sup>, inhalable particulate 8 hr. TWA

3 mg/m<sup>3</sup>, respirable particulate 8 hr. TWA

**Methyl Methacrylate**

FEL (OSHA) 100 ppm, 410 mc/m<sup>3</sup>, 8 hr. TWA

TLV (ACGIH) 50 ppm, 8 hr. TWA, STEL 100 ppm, A4 Sensitiser

\*AEL (Amorini) None established

**Butyl Acrylate**

FEL (OSHA) None established

TLV (ACGIH) 2 ppm, 8 hr. TWA, A4 sensitiser

\* AEL (Amorini) 2 ppm, 8 & 12 hr. TWA, skin

• AEL is Amorini's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits that are lower than the AEL are in effect, such limits shall take precedence.

**FIRE FIGHTING MEASURES****Flammable Properties:**

"Mirostone" Solid Surface Material can be combusted only with difficulty.

Hazardous gases/vapours produced in a fire are carbon monoxide, methyl methacrylate, butyl acrylate and aldehydes.

**Extinguishing:**

Water, Dry Chemical, CO<sub>2</sub>, Foam.

**Fire Fighting Instructions:**

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

**HEALTH HAZARD INFORMATION****SAFE HANDLING INFORMATION CLEAN UP****Safeguards:**

Note: Review **Fire Fighting Measures** and **Handling (Personnel)** sections before proceeding with clean up. Use appropriate **Personal Protective Equipment** during clean up.

**Spill Clean-up:**

Recover undamaged and minimally contaminated material for re-use and reclamation.

**Handling (Personnel):**

Avoid breathing dust.

Avoid breathing fumes generated during heating.

Temperatures reached while thermoforming Solid Surface Material are high enough to release some Polyester Polymer, Hydrated Alumina, Aluminium Hydroxide, Aluminium Tri-hydroxide, Methyl Methacrylate, Butyl Acrylate.

Machining operations during fabrication, such as sawing, sanding or routing, create friction and may result in temperatures high enough to release small amounts of Polyester Polymer at the cutting tool surface.

**STABILITY AND REACTIVITY****Chemical Stability:**

Stable at normal temperatures and storage conditions.

**Incompatibility with other Materials:**

None reasonably foreseeable.

**Decomposition:**

Thermal decomposition can release Polyester Polymer, Hydrated Alumina, Aluminium Hydroxide, Aluminium Tri-hydroxide, Methyl Methacrylate, Butyl Acrylate

**Polymerisation:**

Polymerisation will not occur.

**DISPOSAL CONSIDERATION**

Waste Disposal: Preferred options for disposal are:

Recycling

Incineration with energy recovery

Landfill

Treatment, storage, transportation and disposal must be in accordance with applicable State and Local regulations.

**TRANSPORTATION INFORMATION****Shipping Information:**

Not classified as hazardous goods.

**ECO TOXICOLOGICAL INFORMATION****Aquatic Toxicity:**

No information available.

Toxicity is expected to be low on insolubility in water.

**ADDITIONAL INFORMATION****Medical Use:**

CAUTION

Do not use in medical applications involving permanent implantation in the human body.

**WEIGHTS FOR MIROSTONE 20 MM**

2000 x 600 = 45kg

3000 x 600 = 67kg

3000 x 900 = 102kg

2000 x 900 = 68kg

1000 x 900 = 34kg

**Amorini Australia Pty Ltd**

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