DURAT®
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DURAT® MATERIAL SAFETY DATA SHEET

Durat is a Polyester resin based solid surface material which contains pre-consumer plastic waste.

1. Product and Company Identification

Product name: Durat® Solid Surface
Company: Tonester Oy Ltd
Emergency telephone: +358 20 7871 880
Address: Huhdantie 4, 21140 Rymättylä, Finland

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2. Composition/Information on Ingredients

a. The content of Durat Solid® Surfaces is:

- 30%-40% Polyester resin
  - Ingredient sequence No.:01
  - CAS No.:
- 30%- 40% ATH (Aluminum Trihydrate)
  - Ingredient sequence No.:02
  - CAS No.:
  - NIOSH(RTECS) No:
- 20%-50% recycled waste plastics
  - Ingredient sequence No.:03

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3. Hazards Identification

"Durat® Solid Surface" is not hazardous when shipped. Fabrication of the material; sawing, routing, drilling and sanding, can generate dust. High concentrations of dust can irritate eyes, nose and respiratory passages and cause coughing and sneezing. Even though there is no exposure limit established for dust from "Durat® Solid Surface" (see details in section 8. of this MSDS), avoid breathing dust.

"Durat® Solid Surface" do not off gas at room temperature. At higher temperatures, small amounts of hazardous vapors may be released, the type and amount of which are dependent upon temperature, time and other variables.

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4. First Aid Measures

Inhalation:	Move to fresh air
Eye contact:	Not applicable
Skin contact:	Not applicable
Ingestion:	Not applicable

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.
Skin contact: 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.

5. Fire Fighting Measures

"Durat® Solid Surface" can be combusted only with difficulty.

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

During a fire, carbon dioxide, carbon monoxide, dense smoke and monomer vapors may be generated bythermal decomposition or combustion.

Extinguishing media
Use any available extinguishing media.

Fire Fighting Instructions
This material is not flammable. Use normal firefighting procedures for the area.

6. Accidental Release Measures

Review FIRE FIGHTING MEASURES and HANDLING AND STORAGE sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up.

Spill Clean Up
Recover undamaged and minimally contaminated material for reuse and reclamation.

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

7. Handling and Storage

HANDLING: Sheets should be unloaded with a forklift or other lifting device capable of handling pallets safely. If a lifting device is not available, always carry single sheets in the vertical position, and wear heavy-duty protective gloves and proper safety shoes. Carrying should be done by two people

facing each other on short sides with one hand under to support and the other hand on top to control the sheet.

STORAGE: Keep sheets flat and evenly supported at temperatures between 15 ~ 23˚C (59˚ ~ 73˚F), in a dry and well-ventilated indoor area.

8. Exposure Controls/Personal Protection

TECHNICAL PROTECTIVE MEASURES: Provide for appropriate exhaust ventilation and dust collection at machinery.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATION (DURING MACHIINING OPERATION): In case of insufficient ventilation, wear appropriate respiratory equipment in compliance with local regulations.

EYES (DURING MACHINING OPERATION): Use tightly fitting safety goggles or face-shield.

HANDS (DURING MACHINING OPERATION): Wear protective gloves.

OTHERS (DURING MACHINING OPERATION): Use ear protection, safety shoes.
Those who are highly sensitive should take precautions due to possible eye, nose or throat irritation from Durat® Solid Surfaces dust and fumes.

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

9. Physical and Chemical Properties

Form:	Solid sheet
Color:	Various
Odor:	None
Boiling point:	Not applicable
Melting point:	Not applicable
Specific gravity (water = 1):	1.6 ~ 1.8
Vapor pressure (MMHg):	Not applicable
Vapor density (AIR = 1):	Not applicable
Solubility in water:	Insoluble
pH:	Not applicable
Flash point:	Not applicable
Ignition temperature:	Not applicable

Explosion limits:	Lower = Not applicable Upper = Not applicable

10. Stability and Reactivity

THERMAL DECOMPOSITION PRODUCT: Frictional heat generated from sawing and routing Durat® Solid Surface can reach or exceed a temperature of 300˚ C. This is high enough to release a small amount of methyl methacrylate vapor.
HAZARDOUS DECOMPOSITION PRODUCT: Carbon monoxide, methyl methacrylate monomer, smoke
HAZARDOUS REACTION: None
FURTHER INFORMATION: Sprayed mist may be flammable at temperatures below the flash point.

Chemical Stability
Stable at normal temperatures and storage conditions.
Incompatibility with Other Materials
None reasonably foreseeable.
Decomposition
Thermal decomposition can release methyl methacrylate and
butyl acrylate.
Polymerization
Polymerization will not occur.

11. Toxicological Information

METHYL METHACRYLATE
TLV-TWA = 100 ppm = 410 mg/m3 ; ACGIH (1991-2)
LD50/oral/rat = 7872 mg/kg ; RTECS, 47796

Methyl methacrylate can be present on the cutting tool face at a concentration exceeding the TLV of 100 ppm. However, it dissipates to very low levels with good ventilation.

12. Ecological Information

No information available

13. Disposal Considerations

Can be landfilled or incinerated, when in compliance with local regulations. Preferred option for disposal is recycling.

Durat solid surface can be returned to the manufacturing facility in Finland for free.

14. Transport Information

Not classified as dangerous in the meaning of transport regulations.

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15. Regulatory Information

U.S. FEDERAL REGULATIONS
TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

16. Other Information

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

We hereby certify that the above statements are true and correct in every respect.
If the statements are not true, all responsibility will belong to Durat.

Signature/Issued Date:

/ 3.1.2019

Heikki Karppinen
C.E.O.

Durat®
Tonester Oy Ltd.