

DURAT

DURAT MATERIAL SAFETY DATA SHEET

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

Product and Company Identification

Product name: Durat Solid Surface
Company: Tonester Oy Ltd
Emergency telephone: +35820 7871 880
Address: Huhdantie 4, 21140 Rymättylä, Finland

Composition / Information on Ingredients

Chemical nature: Mixture

Components

Solid surface: concentration 100%

Exposure limits may be applicable for the following:

- Dust (inhalable and respirable fraction)
- Methyl methacrylate CAS No.: 80-62-6
- Polyester resin CAS No.: not available

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 "Exposure Controls / Personal Protection"), 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.

First Aid Measures

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

Inhalation

Move to fresh air, if exposed to fumes, e.g., from overheating or combustion; or if large amounts of dust are inhaled.

Skin contact

Material is not hazard, i.e., not require special first aid measures. Rinse with water, if a sharp corner of material causes a cut wound from.

Eye contact

Rinse properly with plenty of water, if necessarily also under the eyelids.

Ingestion

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

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.

Suitable extinguishing media against fire are water spray, dry chemical, carbon dioxide (CO₂), Foam.

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Extinguishing media:

- Use any available extinguishing media.

Fire Fighting Instructions:

- This material is not flammable. use normal firefighting procedures for the area.

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.

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.

Exposure Controls / Personal Protection

Technical Protective Measures:

- Provide for appropriate exhaust ventilation and dust collection at machinery.

Personal Protective Equipment:

Respiration (during machining 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.

Exposure Controls / Personal Protection

Form: Solid sheet

Colour: 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

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Upper = Not applicable

levels with good ventilation.

Stability and Reactivity

Thermal decomposition product:

- Frictional heat generated from sawing and routing Durat Solid Surface can reach or exceed a temperature of 300C. 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.

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

Ecological Information

No information available.

Disposal Information

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.

Transport Information

Not classified as dangerous in the meaning of transport regulations.

Regulatory Information

U.S. Federal Regulations

TSCA Inventory status:

- In compliance with TSCA Inventory requirements for commercial purposes.

Other Information

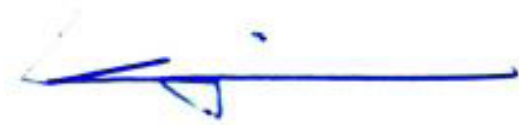
Do not use in medical applications involving permanent implantation in the human body.

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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:



/ 14.11.2022

Heikki Karppinen
C.E.O.
Durat Tonester Oy Ltd.