

CORIAN® MATERIAL SAFETY DATA SHEET (MSDS)

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Corian® is a registered trademark of DuPont.

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information: 1-800-441-7515
Transport Emergency: 1-800-424-9300 (CHEMTREC)
Medical Emergency: 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number %
Corian® solid surface material	100

Exposure limits may be applicable for the following:

Methyl Methacrylate	<1
Butyl Acrylate	<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.

HAZARDS IDENTIFICATION

Potential Health Effects

Corian® 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 Corian® solid surface material, DuPont recommends using the exposure limits for polymethyl methacrylate. (See details in the Exposure Controls/Personal Protection section of this technical bulletin.)

Corian® solid surface material does not off-gas at room temperature. At higher temperatures, small amounts of methyl methacrylate and butyl acrylate can be released, the amounts of which are dependent upon temperature, time and other variables.

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Methyl methacrylate and butyl acrylate vapors can irritate eyes, skin, nose and throat and can cause allergic skin rashes. Overexposure to vapors of methyl methacrylate can cause headache, nausea, weakness and lung irritation with cough, discomfort and shortness of breath.

Individuals with preexisting diseases of the lungs or skin may have increased susceptibility to the effects of overexposure to methyl methacrylate or butyl acrylate.

Carcinogenicity Information

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

FIRST AID MEASURES

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.

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.

FIRE FIGHTING MEASURES

Flammable Properties

Corian® solid surface material can be combusted only with difficulty.

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

Extinguishing Media

Water, dry chemical, CO₂, foam

Fire Fighting Instructions

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

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ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review “Fire Fighting Measures” and “Handling (Personnel)” sections before proceeding with cleanup. Use appropriate “Personal Protective Equipment” during cleanup.

Spill Cleanup

Recover undamaged and minimally contaminated material for reuse and reclamation.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing dust.

Avoid breathing fumes generated during heating. Temperatures reached while thermoforming Corian® solid surface material are high enough to release some methyl methacrylate or 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 methyl methacrylate or butyl acrylate at the cutting tool surface.

EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Personal Protective Equipment

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 concentration 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.

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Exposure Guidelines[#]

Exposure Limits

CORIAN® SOLID SURFACE MATERIAL

AEL* (DuPont):	Polymethyl Methacrylate
	10 mg/m ³ , 8 Hr. TWA, total dust
	5 mg/m ³ , 8 Hr. TWA, respirable dust
PEL (OSHA):	Particulates (Not Otherwise Regulated)
	15 mg/m ³ , 8 Hr. TWA, total dust
	5 mg/m ³ , 8 Hr. TWA, respirable dust

TLV (ACGIH):	Particulates (Insoluble) Not Otherwise Classified
	10 mg/m ³ , 8 Hr. TWA, inhalable particulate
	3 mg/m ³ , 8 Hr. TWA, respirable particulate

Other Applicable Exposure Limits

Methyl Methacrylate

PEL (OSHA):	100 ppm, 410 mg/m ³ , 8 Hr. TWA
TLV (ACGIH):	50 ppm, 8 Hr. TWA, STEL 100 ppm, A4 Sensitizer
AEL* (DuPont):	None Established

Butyl Acrylate

PEL (OSHA):	None Established
TLV (ACGIH):	2 ppm, 8 Hr. TWA, A4 Sensitizer
AEL* (DuPont):	2 ppm, 8 & 12 Hr. TWA, Skin

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

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

% Volatiles:	0% at room temperature
Solubility in Water:	Insoluble
Form:	Sheets and shaped articles
Specific Gravity:	1.74–1.78

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STABILITY AND REACTIVITY

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.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Aquatic Toxicity

No information available.

Toxicity is expected to be low based on insolubility in water.

DISPOSAL CONSIDERATIONS

Waste Disposal

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. Treatment, storage, transportation and disposal must be in accordance with applicable federal, state/provincial and local regulations.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Not regulated.

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REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status: In compliance with TSCA inventory requirements for commercial purposes.

State Regulations (U.S.)

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES) — None known.

WARNING — SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM — None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS) — None known.

OTHER INFORMATION

Additional Information

MEDICAL USE: CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications see DuPont CAUTION Bulletin No. H-50102.

The data in this Technical Bulletin relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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Indicates updated section.

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