

**Corian® Solid Surface Acrylic Modified Polyester Shapes**

Version 3.0

Issue Date : 12/18/2024 Ref. 130000149699
Revision Date : 12/17/2024

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Corian® Solid Surface Acrylic Modified Polyester Shapes - Gemstone
Product Use : Article, For professional users only.

Restrictions on use : Do not use product for anything outside of the above specified uses.
Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, Delaware 19805

Product Information : 1-833-338-7668
Transport Emergency : +1-800-424-9300 (outside the U.S. & Canada +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category
Combustible dust

Label content

Pictogram : not required

Signal word : Warning

Hazardous warnings : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Hazardous prevention measures : not required

Other hazards



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The product as such is not hazardous.
 The hazards of this product are associated mainly with its processing.
 Operations such as sawing, routing, drilling and sanding can generate dust.
WARNING!
 May form combustible dust concentrations in air (during processing).
 High concentrations of dust can irritate eyes, nose and respiratory system and cause coughing and sneezing. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
 The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 99.5 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Solid Surface		100 %

Exposure limits may be applicable for the following :

Dust (inhalable and respirable fraction)		
Methyl methacrylate	80-62-6	
Styrene	100-42-5	

SECTION 4. FIRST AID MEASURES

General advice : No applicable data available.
 Inhalation : If large amounts of dust are inhaled, or if exposed to fumes from overheating or combustion, move to fresh air.
 Skin contact : No hazards which require special first aid measures.
 Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
 Ingestion : No hazards which require special first aid measures.
 Most important symptoms/effects, acute and delayed : No applicable data available.



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Protection of first-aiders : No applicable data available.
 Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Dry chemical, Carbon dioxide (CO2), Foam

Unsuitable extinguishing media : No applicable data available.

Specific hazards : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Hazardous combustion products Carbon monoxide Carbon dioxide (CO2) Methyl methacrylate monomer Aldehydes

Special protective equipment for firefighters : No applicable data available.

Further information : No applicable data available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : No special precautions required.

Environmental precautions : No special environmental precautions required.

Spill Cleanup : 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Non-sparking tools should be used.

Accidental Release Measures : No applicable data available.



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SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Do not breathe dust. Do not breathe vapours or fumes that may be evolved during processing. Wash hands before breaks and at the end of workday. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654).
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.
- Storage : No special storage conditions required.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal protective equipment
 - Respiratory protection : No personal respiratory protective equipment normally required. Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.
 - Hand protection : Additional protection: Wear gloves suitable for the task being performed. Leather gloves or a suitable alternative should be worn when handling solid surface. Chemical resistant gloves should be used when handling chemicals. One exception is the use of rotating equipment, where gloves could be caught on the equipment.
 - Eye protection : Safety glasses

Exposure Guidelines
 Exposure Limit Values

Solid Surface
No applicable data available.

Dust (inhalable and respirable fraction)



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PEL (Permissible Exposure Limit)	(OSHA)	50 Million particles per cubic foot	TWA total dust
PEL (Permissible Exposure Limit)	(OSHA)	15 mg/m3	TWA total dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	TWA respirable fraction
PEL (Permissible Exposure Limit)	(OSHA)	15 Million particles per cubic foot	TWA respirable fraction
TLV	(ACGIH)	3 mg/m3	TWA Respirable particulate matter
TLV	(ACGIH)	10 mg/m3	TWA Inhalable particulate matter

Methyl methacrylate			
TLV	(ACGIH)	50 ppm	TWA
TLV	(ACGIH)	100 ppm	STEL
REL	(NIOSH)	100 ppm 410 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm 410 mg/m3	8 hr. TWA
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm 410 mg/m3	TWA
AEL *	(DuPont)	50 ppm	8 & 12 hr. TWA
AEL *	(DuPont)	100 ppm	Short term exposure limit

Styrene			
REL	(NIOSH)	50 ppm 215 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
REL	(NIOSH)	100 ppm 425 mg/m3	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm	TWA
PEL (Permissible Exposure Limit)	(OSHA)	200 ppm	CEIL
PEL (Permissible Exposure Limit)	(OSHA)	600 ppm	Peak
PEL (Permissible Exposure Limit)	(OSHA)	50 ppm 215 mg/m3	TWA
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm 425 mg/m3	STEL



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TLV	(ACGIH)	10 ppm	TWA
TLV	(ACGIH)	20 ppm	STEL
AEL *	(DuPont)	10 ppm	12 hr. TWA

Biological Exposure Indices

Styrene			
BEI	(ACGIH)	20 µg/l	Styrene/Urine End of shift (As soon as possible after exposure ceases)
BEI	(ACGIH)	150	Mandelic acid plus phenylglyoxylic acid/Urine End of shift (As soon as possible after exposure ceases)

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : solid
Color : various

Odor : odourless

Odor threshold : No applicable data available.

pH : No applicable data available.

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

Evaporation rate : No applicable data available.

Flammability (solid, gas) : May form combustible dust concentrations in air.

Upper explosion limit : No applicable data available.

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Lower explosion limit : No applicable data available.
Vapour Pressure : No applicable data available.
Vapour density : No applicable data available.
Specific gravity (Relative density) : No applicable data available.
Bulk density : 1.7 - 1.8 kg/m3
Water solubility : No applicable data available.
Solubility(ies) : No applicable data available.
Partition coefficient: n-octanol/water : No applicable data available.
Auto-ignition temperature : No applicable data available.
Decomposition temperature : No applicable data available.
Viscosity, kinematic : No applicable data available.
Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.
Chemical stability : No applicable data available.
Possibility of hazardous reactions : No applicable data available.
Conditions to avoid : None reasonably foreseeable. Stable under normal conditions.
Incompatible materials : No applicable data available.
Hazardous decomposition products : Methyl methacrylate monomer, Styrene

SECTION 11. TOXICOLOGICAL INFORMATION

Methyl methacrylate

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Inhalation 4 h LC50	:	29.8 mg/l , Rat Target Organs: Respiratory system
Dermal LD50	:	> 5,000 mg/kg , Rabbit
Oral LD50	:	6,550 mg/kg , Rabbit
Skin irritation	:	Severe skin irritation, Rabbit
Eye irritation	:	No eye irritation, Rabbit
Skin sensitization	:	May cause sensitisation by skin contact., Guinea pig Does not cause respiratory sensitization., human
Repeated dose toxicity	:	Oral Rat - NOAEL: > 3300, No toxicologically significant effects were found.
Carcinogenicity	:	Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
Mutagenicity	:	Animal testing did not show any mutagenic effects.
Reproductive toxicity	:	No toxicity to reproduction No effects on or via lactation Animal testing showed no reproductive toxicity.
Teratogenicity	:	Animal testing showed no developmental toxicity.

Styrene

Inhalation 4 h LC50	:	11.8 mg/l , Rat
Dermal LD50	:	> 2,000 mg/kg , Rat
Oral LD50	:	> 6,000 mg/kg , hamster
Skin irritation	:	Severe skin irritation, Rabbit
Eye irritation	:	Irritation to eyes, reversing within 21 days, Rabbit
Skin sensitization	:	Does not cause skin sensitization., Guinea pig



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- Does not cause respiratory sensitization., human
- Repeated dose toxicity : Inhalation
 Rat
 - 28 d
 vapour
 NOAEL: 2.13 mg/l
 Central nervous system effects, Hearing disturbances
- Ingestion
 Rat
 - 24 Months
 NOAEL: 1,000 mg/kg
 LOAEL: 2,000 mg/kg
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
- Carcinogenicity : Weight of evidence does not support classification as a carcinogen
 Overall weight of evidence indicates that the substance is not carcinogenic.
- Mutagenicity : Weight of evidence does not support classification as a germ cell mutagen.
 Genetic damage in cultured bacterial cells was observed in some laboratory tests but not in others.
 Tests on mammalian cell cultures showed mutagenic effects.
 Genetic damage in animals was observed in some laboratory tests but not in others.
- Reproductive toxicity : Animal testing showed no reproductive toxicity.
- Teratogenicity : Some evidence of adverse effects on development, based on animal experiments.
 Animal testing showed effects on embryo-foetal development at levels below those causing maternal toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).



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Material	IARC	NTP	OSHA
Titanium dioxide	2B		
Styrene	2A	X	

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Methyl methacrylate

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 79 mg/l
- 72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 110 mg/l OECD Test Guideline 201
- 72 h NOEC : Pseudokirchneriella subcapitata (green algae) 110 mg/l OECD Test Guideline 201
- 48 h EC50 : Daphnia magna (Water flea) 69 mg/l see user defined free text
- 35 d : NOEC Danio rerio (zebra fish) 9.4 mg/l OECD Test Guideline 210
- 21 d : NOEC Daphnia magna (Water flea) 37 mg/l OECD Test Guideline 211

Styrene

- 96 h LC50 : Pimephales promelas (fathead minnow) 10 mg/l OECD Test Guideline 203
- 96 h EC50 : Raphidocelis subcapitata (freshwater green alga) 6.3 mg/l
- 96 h EC10 : Raphidocelis subcapitata (freshwater green alga) 0.28 mg/l
- 48 h EC50 : Daphnia magna (Water flea) 4.7 mg/l OECD Test Guideline 202
- 21 d : NOEC Daphnia magna (Water flea) 1.01 mg/l OECD Test Guideline 211

Environmental Fate

Methyl methacrylate

- Biodegradability : rapidly biodegradable OECD Test Guideline 301C
 Readily biodegradable.



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Styrene Bioaccumulation : Bioaccumulation is unlikely.
 Biodegradability : Biodegradable
 Readily biodegradable.
 Bioaccumulation : Bioaccumulation is unlikely.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Can be landfilled or incinerated, when in compliance with local regulations.
 Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA : On the inventory, or in compliance with the inventory

SARA 313 Regulated Chemical(s)

The following components are subject to reporting levels established by SARA Title III, Section 313:

Components	CAS-No.	Concentration %
Styrene	100-42-5	32 %
Methyl methacrylate	80-62-6	4 %

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Titanium dioxide, Styrene, 2-Ethylhexan-1-ol, Methyl methacrylate, Iron



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Hydroxide Oxide (Fe(OH)O), Cobalt neodecanoate, 1,2,4-Trimethylbenzene, Methanol, 2-(2-Ethoxyethoxy)ethanol

NJ Right to Know Regulated Chemical(s) : 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): Titanium dioxide, Styrene, Methyl methacrylate

California Prop. 65 : WARNING: This product can expose you to substances including Styrene, which is/are known to the State of California to cause cancer, and Methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Restrictions for use : Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Before use read DuPont's safety information.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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Components: Solid Surface; Dust (inhalable and respirable fraction); Methyl methacrylate, CAS No. 80-62-6; Styrene, CAS No. 100-42-5

Warning

Hazard statements: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Supplemental information: The product as such is not hazardous. The hazards of this product are associated mainly with its processing. Operations such as sawing, routing, drilling and sanding can generate dust. **WARNING!** May form combustible dust concentrations in air (during processing). High concentrations of dust can irritate eyes, nose and respiratory system and cause coughing and sneezing. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 99.5 %

Refer to Safety Data Sheet (SDS) for further information.

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