

Corian® Joint Adhesive Component A

Version 4.0

Issue Date : 08/18/2018 Ref. 150000004821
Revision Date : 08/13/2018

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® Joint Adhesive Component A
Product Use : Adhesives and/or sealants, 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 : +1-800-441-7515 (outside the U.S. +1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Skin irritation	Category 2
Eye irritation	Category 2A
Skin sensitisation	Category 1
Specific target organ toxicity - single exposure	Category 3

Label content

Pictogram :



Signal word : Warning



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Hazardous warnings : Causes skin irritation.
 May cause an allergic skin reaction.
 Causes serious eye irritation.
 May cause respiratory irritation.

Hazardous prevention measures : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/ eye protection/ face protection.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER/doctor if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If skin irritation or rash occurs: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/ attention.
 Take off contaminated clothing and wash before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a secure area.
 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 13.744 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Methyl methacrylate	80-62-6	45 - 65 %
Methacrylic acid	79-41-4	1 - 3 %
Propylidynetrimehyl trimethacrylate	3290-92-4	1 - 5 %



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2,6-di-tert-Butyl-p-cresol	128-37-0	0.1 - 1 %
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SECTION 4. FIRST AID MEASURES

- General advice : No applicable data available.
- Inhalation : Remove from exposure, lie down. Consult a physician after significant exposure.
- Skin contact : Wash off immediately with soap and plenty of water.
- Eye contact : In case of eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- Ingestion : If symptoms persist, call a physician.
- Most important symptoms/effects, acute and delayed : For further information see Section 11.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : No specific intervention is indicated. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam, Water spray, Dry chemical, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards : Hazardous combustion products
Carbon monoxide carbon dioxide.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

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Further information : Evacuate personnel and keep upwind of fire. Do not allow run-off from fire fighting to enter drains or water courses.

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) : Wear personal protective equipment.

Environmental precautions : Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Spill Cleanup : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ensure adequate ventilation.

Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Avoid contact with skin and eyes. Use only in well-ventilated areas. Wash hands before breaks and at the end of workday. Keep away from food and drink. Wash contaminated clothing before re-use.
Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs. Remove and wash contaminated clothing before re-use.

Handling (Physical Aspects) : Keep product and empty container away from heat and sources of ignition. When using do not smoke.

Dust explosion class : No applicable data available.

Storage : Keep containers tightly closed in a cool, well-ventilated place.

Storage period : No applicable data available.

Storage temperature : 5 - 23 °C (41 - 73 °F)



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use sufficient ventilation to keep employee exposure below recommended limits.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Mask with gas filter, type A (EN 141)

Hand protection : Material: Rubber gloves

Eye protection : Safety glasses

Exposure Guidelines
Exposure Limit Values

Methyl methacrylate			
Permissible exposure limit:	(OSHA)	100 ppm 410 mg/m ³	8 hr. TWA
TLV	(ACGIH)	50 ppm	TWA
TLV	(ACGIH)	100 ppm	STEL

Methacrylic acid			
TLV	(ACGIH)	20 ppm	TWA
AEL *	(DuPont)	10 ppm	8 & 12 hr. TWA

Propylidynetrimethyl trimethacrylate			
No applicable data available.			

2,6-di-tert-Butyl-p-cresol			
TLV	(ACGIH)	2 mg/m ³	TWA

* 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

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Appearance
Physical state : solid
Form : viscous liquid
Color : various, coloured

Odor : pungent, acrylic-like

Odor threshold : not determined

pH : Not applicable

Melting point/freezing point : Melting point/range
not determined

Boiling point/boiling range : Boiling point/boiling range
101 °C (214 °F)

Flash point : 9 °C

Evaporation rate : No applicable data available.

Flammability (solid, gas) : Not applicable

Upper explosion limit : 12.5 vol%

Lower explosion limit : 2.1 vol%

Vapor pressure : 47 hPa at 20 °C (68 °F)

Vapour density : No applicable data available.

Density : 1 g/cm³ at 20 °C (68 °F)

Specific gravity (Relative density) : No applicable data available.

Water solubility : immiscible

Solubility(ies) : No applicable data available.

Partition coefficient: n-octanol/water : No applicable data available.

Auto-ignition temperature : not auto-flammable

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Ignition temperature : 430 °C
Decomposition temperature : No applicable data available.
Viscosity, kinematic : No applicable data available.
Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : No applicable data available.
Conditions to avoid : Heat Exposure to sunlight.
Incompatible materials : Reducing agents Oxidizing agents
Hazardous decomposition products : Hazardous decomposition products, Carbon dioxide (CO₂), Carbon monoxide, Carbon oxides, Smoke, acrid fumes, Acrylic monomers

SECTION 11. TOXICOLOGICAL INFORMATION

Methyl methacrylate
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 sensitisation., human
Repeated dose toxicity : Oral



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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.

Methacrylic acid

- Inhalation 4 h LC50 : 3.4 mg/l , Rat
 Target Organs: Respiratory system
 eye effects
 Respiratory effects
 Central nervous system effects
- Dermal Acute toxicity estimate : 300 mg/kg , Rabbit
- Oral LD50 : 1,320 mg/kg , Rat
- Skin irritation : Corrosive after 3 minutes or less of exposure, Rabbit
- Eye irritation : Corrosive, Rabbit
- Skin sensitization : Does not cause skin sensitisation., Guinea pig
 Does not cause respiratory sensitisation., Not tested on animals
- Repeated dose toxicity : Inhalation
 Rat
 -
 NOAEL: 0.352 mg/l Method: OECD Test Guideline 413
 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.



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Did not cause genetic damage in cultured mammalian cells.
Genetic damage in cultured bacterial cells was observed in some laboratory tests but not in others.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Propylidynetrimethyl trimethacrylate

Dermal LD50 : > 2,000 mg/kg , Rat

Oral LD50 : > 2,000 mg/kg , Rat

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit
Minimal effects that do not meet the threshold for classification.

Skin sensitization : Does not cause skin sensitisation., Guinea pig

Repeated dose toxicity : Ingestion
Rat
- 54 d
NOAEL: > 900 mg/kg Method: OECD Test Guideline 422
No toxicologically significant effects were found.

Skin contact
Mouse
- 80 Weeks
NOAEL: 833 mg/kg
No toxicologically significant effects were found.

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.
Did not cause genetic damage in cultured bacterial cells.
Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.



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2,6-di-tert-Butyl-p-cresol

- Dermal LD50 : > 2,000 mg/kg , Rat
- Oral LD50 : > 2,390 mg/kg , Rat
- Skin irritation : No skin irritation, Rabbit
- Eye irritation : No eye irritation, Rabbit
- Skin sensitization : Does not cause skin sensitisation., human
- Repeated dose toxicity : Oral
 Rat
 -
 NOAEL: 250 mg/kg
 LOAEL: 500 mg/kg
 Kidney effects, Liver effects
- Carcinogenicity : Not classifiable as a human carcinogen.
 Overall weight of evidence indicates that the substance is not carcinogenic.
- Mutagenicity : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction
 No effects on or via lactation
 Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above 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).

Material	IARC	NTP	OSHA
Titanium dioxide	2B		



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Carbon black 2B

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

Methacrylic acid

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 85 mg/l
72 h ErC50	:	Pseudokirchneriella subcapitata (green algae) 45 mg/l
72 h NOEC	:	Pseudokirchneriella subcapitata (green algae) 8.2 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 130 mg/l
35 d	:	NOEC Danio rerio (zebra fish) 10 mg/l
21 d	:	NOEC Daphnia magna (Water flea) 53 mg/l

Propylidynetrimethyl trimethacrylate

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 2 mg/l OECD Test Guideline 203
72 h ErC50	:	Pseudokirchneriella subcapitata (green algae) 3.88 mg/l OECD Test Guideline 201
72 h NOEC	:	Pseudokirchneriella subcapitata (green algae) 0.177 mg/l OECD Test Guideline 201



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48 h EC50 : Daphnia magna (Water flea) > 9.22 mg/l OECD Test Guideline 202

32 d : NOEC Pimephales promelas (fathead minnow) 0.138 mg/l OECD Test Guideline 210

2,6-di-tert-Butyl-p-cresol

96 h LC50 : Danio rerio (zebra fish) 0.57 mg/l

72 h ErC50 : Desmodesmus subspicatus (green algae) > 0.4 mg/l Directive 67/548/EEC, Annex V, C.3.

48 h EC50 : Daphnia magna (Water flea) 0.61 mg/l OECD Test Guideline 202

21 d : NOEC Daphnia magna (Water flea) 0.316 mg/l

Environmental Fate

Methyl methacrylate

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

Bioaccumulation : Bioaccumulation is unlikely.

Propylidynetrimethyl trimethacrylate

Bioaccumulation : Bioaccumulation is unlikely.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Do not dispose of together with household waste. Do not flush into surface water or sanitary sewer system. In accordance with local and national regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN number : 1133



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	Proper shipping name	: Adhesives
	Class	: 3
	Packing group	: II
	Labelling No.	: 3
	Reportable Quantity	:
IATA_C	UN number	: 1133
	Proper shipping name	: Adhesives
	Class	: 3
	Packing group	: II
	Labelling No.	: 3
IMDG	UN number	: 1133
	Proper shipping name	: ADHESIVES
	Class	: 3
	Packing group	: II
	Labelling No.	: 3

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazard classification : Flammable (gases, aerosols, liquids, or solids)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or skin sensitisation
 Specific target organ toxicity (single or repeated exposure)

SARA 313 Regulated Chemical(s) : Methyl methacrylate, C.I. Pigment Brown 24

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):
 Methyl methacrylate, Diisononyl Phthalate, Titanium dioxide, Methacrylic acid, C.I. Pigment Red 101, Carbon black, C.I. Pigment Brown 24

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): Methyl methacrylate, Titanium dioxide, Methacrylic acid, C.I. Pigment Red 101, Carbon black, C.I. Pigment Brown 24

CERCLA Reportable Quantity : 12 lbs
 Based on the percentage composition of this chemical in the product.:
 Diisononyl Phthalate

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California Prop. 65 : This product can expose you to substances including Carbon black, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

	NFPA
Health :	1
Flammability :	3
Reactivity/Physical hazard :	0

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.