

SAFETY DATA SHEET



Corian[®] Joint Adhesive Component A

Version 2.0

Revision Date 08.01.2018

Document no. 150000004821

Issue Date 08.01.2018

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Corian[®] Joint Adhesive Component A

Recommended use of the chemical and restriction on use

Recommended 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, importer, supplier, representative office

Company : DuPont (New Zealand) Limited
Street address : Level 1, 14 Ormiston Road, East Tamaki, Auckland 2016
New Zealand
Telephone : +64 9 271 2408
Telefax : (09)-271-2961

Emergency telephone number : 24-hour Medical Emergency: 0800 111174;
Transport Emergency: 0800 387668

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Classified as a Dangerous Good according to NZS 5433

HSNO Classification:

3.1B : Flammable Liquids
6.1E : Acute toxicity (Inhalation)
6.3A : Skin irritation
6.4A : Eye irritation
6.5B : Skin sensitisation
9.1C : Aquatic toxicity (Acute or Chronic)

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Danger

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- Hazardous warnings** : Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May be harmful if inhaled.
Harmful to aquatic life with long lasting effects.
- Precautionary statements** : Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
IF INHALED: 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.
Specific treatment (see supplemental first aid instructions on this label).
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.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Store in a well-ventilated place. Keep cool.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
Methyl methacrylate	80-62-6	45 - 65%
Propylidynetrimethyl trimethacrylate	3290-92-4	1 - 5%
Methacrylic acid	79-41-4	1 - 3%
2,6-di-tert-Butyl-p-cresol	128-37-0	0.1 - 1%

4. FIRST AID MEASURES

- 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.

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- 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.

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.
- Specific extinguishing methods** : No information available.
- Further information** : Evacuate personnel and keep upwind of fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Hazchem Code** : .3YE

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : 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.
- Methods and materials for containment and cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling

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Technical measures/Precautions : 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.

Precautions for safe handling : Keep product and empty container away from heat and sources of ignition. When using do not smoke.

Storage

Suitable storage conditions : Keep containers tightly closed in a cool, well-ventilated place.

Storage period: Storage temperature: 5 - 23 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Applicable occupational exposure limits are listed below.

Chemical name	Occupational Exposure Limits	Regulation
Methyl methacrylate		
STEL	100 ppm 416 mg/m ³	NZ OEL (09 2010)
	Skin absorption can be significant.	NZ OEL (09 2010)
TWA	50 ppm 208 mg/m ³	NZ OEL (09 2010)
TWA	50 ppm	US ACGIH (2011)
STEL	100 ppm	US ACGIH (2011)
Methacrylic acid		
TWA	20 ppm 70 mg/m ³	NZ OEL (09 2010)
TWA	20 ppm	US ACGIH (2011)
2,6-di-tert-Butyl-p-cresol		
TWA	10 mg/m ³	NZ OEL (09 2010)
TWA	2 mg/m ³ (Inhalable fraction and vapor.)	US ACGIH (2011)

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

Biological occupational exposure limits : No information available.

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

Skin protection : No information available.

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Hygiene measures : 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.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance (Physical state, form, colour, etc.)**

Physical state : liquid
Form : viscous liquid
Colour : various, coloured

Odour : pungent acrylic-like

Odour Threshold : not determined

pH : Not applicable

Melting point/freezing point

Melting point/range : not determined

Initial boiling point and boiling range

Boiling point/boiling range : 101 °C

Flash point : 10 °C

Evaporation rate : No information available.

Flammability (solid, gas) : Not applicable

Upper/lower flammability or explosive limits

Upper explosion limit : 12.5 vol%
Lower explosion limit : 2.1 vol%

Vapour pressure : 47 hPa (20 °C)

Vapour density : No information available.

Density

Density : 1 g/cm³ (20 °C)

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-octanol/water : No information available.

Auto-ignition temperature

Auto-ignition temperature : not auto-flammable
Ignition temperature : 430 °C

Decomposition temperature : No information available.

Viscosity

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Viscosity, kinematic : No information available.

Molecular weight : No information available.

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 information available.

Conditions to avoid : Heat Exposure to sunlight.

Materials to avoid : Reducing agents, Oxidizing agents

Hazardous decomposition products : Hazardous decomposition products, Carbon dioxide (CO₂), Carbon monoxide, Carbon oxides, Smoke, acrid fumes, Acrylic monomers

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Methyl methacrylate : LD50/Rabbit: 6,550 mg/kg
Propylidynetrimethyl trimethacrylate : LD50/Rat: > 2,000 mg/kg
Method: OECD Test Guideline 423
The substance or mixture has no acute oral toxicity
Methacrylic acid : LD50/Rat: 1,320 mg/kg
Method: OECD Test Guideline 401

Inhalation

Methyl methacrylate : LC50/4 h/Rat(vapour): 29.8 mg/l
Target Organs: Respiratory system
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Propylidynetrimethyl trimethacrylate : Toxic effects cannot be excluded

Methacrylic acid : LC50/4 h/Rat(dust/mist): 3.4 mg/l
Method: OECD Test Guideline 403
Target Organs: Respiratory system
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation, eye effects, Respiratory effects, Central nervous system effects

2,6-di-tert-Butyl-p-cresol : Toxic effects cannot be excluded

Dermal

Methyl methacrylate : LD50/Rabbit: > 5,000 mg/kg
The substance or mixture has no acute dermal toxicity

Propylidynetrimethyl trimethacrylate : LD50/Rat: > 2,000 mg/kg
Method: OECD Test Guideline 402

The substance or mixture has no acute dermal toxicity

Methacrylic acid : Acute toxicity estimate/Rabbit: 300 mg/kg
Method: Expert judgement

Skin corrosion/irritation

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- Methyl methacrylate : Species: Rabbit
Result: Severe skin irritation
Classification: Irritating to skin.
- Propylidynetrimethyl trimethacrylate : Species: Rabbit
Result: No skin irritation
Classification: No skin irritation
Method: OECD Test Guideline 404
- Methacrylic acid : Species: Rabbit
Result: Corrosive after 3 minutes or less of exposure
Classification: Causes severe burns.
Method: OECD Test Guideline 404
- 2,6-di-tert-Butyl-p-cresol : Species: Rabbit
Result: No skin irritation
Classification: Not classified as irritant

Serious eye damage/eye irritation

- Methyl methacrylate : Species: Rabbit
Result: No eye irritation
Classification: Not classified as irritant
- Propylidynetrimethyl trimethacrylate : Species: Rabbit
Result: No eye irritation
Classification: No eye irritation
Method: OECD Test Guideline 405
Minimal effects that do not meet the threshold for classification.
- Methacrylic acid : Species: Rabbit
Result: Corrosive
Classification: Corrosive
- 2,6-di-tert-Butyl-p-cresol : Species: Rabbit
Result: No eye irritation
Classification: Not classified as irritant

Respiratory or skin sensitisation

- Methyl methacrylate : Species: Guinea pig
Result: May cause sensitisation by skin contact.
Classification: May cause sensitisation by skin contact.
Method: OECD Test Guideline 429
- Species: human
Result: Does not cause respiratory sensitisation.
Classification: Does not cause respiratory sensitisation.
- Propylidynetrimethyl trimethacrylate : Species: Guinea pig
Result: Does not cause skin sensitisation.
Classification: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
- Methacrylic acid : Species: Guinea pig
Result: Does not cause skin sensitisation.
Classification: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
- Species: Not tested on animals
Result: Does not cause respiratory sensitisation.
Classification: Does not cause respiratory sensitisation.
- 2,6-di-tert-Butyl-p-cresol : Species: human
Result: Does not cause skin sensitisation.
Classification: Does not cause skin sensitisation.


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Germ cell mutagenicity

- Methyl methacrylate : Animal testing did not show any mutagenic effects.
- Propylidynetrimethyl trimethacrylate : 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.
- Methacrylic acid : Animal testing did not show any mutagenic effects. 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.
- 2,6-di-tert-Butyl-p-cresol : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

- Methyl methacrylate : Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
- Propylidynetrimethyl trimethacrylate : Animal testing did not show any carcinogenic effects.
- Methacrylic acid : Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
- 2,6-di-tert-Butyl-p-cresol : Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

Reproductive toxicity

- Methyl methacrylate : 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.
- Propylidynetrimethyl trimethacrylate : 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.
- Methacrylic acid : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Teratogenicity: Animal testing showed no developmental toxicity.
- 2,6-di-tert-Butyl-p-cresol : 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.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

- Methyl methacrylate : Target Organs: Respiratory system
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
- Propylidynetrimethyl trimethacrylate : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Methacrylic acid : Target Organs: Respiratory system
The substance or mixture is classified as specific target organ toxicant,

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- single exposure, category 3 with respiratory tract irritation.
- Specific target organ toxicity - repeated exposure
- Methyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Propylidynetrimethyl trimethacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Methacrylic acid : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

- Propylidynetrimethyl trimethacrylate : No aspiration toxicity classification
- Methacrylic acid : No aspiration toxicity classification
- 2,6-di-tert-Butyl-p-cresol : No aspiration toxicity classification

Other

- Methyl methacrylate : Repeated dose toxicity:
Oral/Rat
NOAEL: > 3300,
No toxicologically significant effects were found.
- Propylidynetrimethyl trimethacrylate : 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.
- Methacrylic acid : Repeated dose toxicity:
Inhalation/Rat
NOAEL: 0.352 mg/l
Method: OECD Test Guideline 413
No toxicologically significant effects were found.
- 2,6-di-tert-Butyl-p-cresol : Repeated dose toxicity:
Oral/Rat
NOAEL: 250 mg/kg
LOAEL: 500 mg/kg
Kidney effects, Liver effects

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Acute and prolonged toxicity to fish

- Methyl methacrylate : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 79 mg/l
- Propylidynetrimethyl trimethacrylate : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 2 mg/l
Method: OECD Test Guideline 203
- Methacrylic acid : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 85 mg/l
- 2,6-di-tert-Butyl-p-cresol : LC50/96 h/Danio rerio (zebra fish): 0.57 mg/l

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Toxicity to aquatic plants

- Methyl methacrylate : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 110 mg/l
Method: OECD Test Guideline 201
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 110 mg/l
Method: OECD Test Guideline 201
- Propylidynetrimethyl trimethacrylate : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 3.88 mg/l
Method: OECD Test Guideline 201
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.177 mg/l
Method: OECD Test Guideline 201
- Methacrylic acid : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 45 mg/l
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 8.2 mg/l
- 2,6-di-tert-Butyl-p-cresol : ErC50/72 h/Desmodesmus subspicatus (green algae): > 0.4 mg/l
Method: Directive 67/548/EEC, Annex V, C.3.

Acute toxicity to aquatic invertebrates

- Methyl methacrylate : EC50/48 h/Daphnia magna (Water flea): 69 mg/l
Method: see user defined free text
- Propylidynetrimethyl trimethacrylate : EC50/48 h/Daphnia magna (Water flea): > 9.22 mg/l
Method: OECD Test Guideline 202
- Methacrylic acid : EC50/48 h/Daphnia magna (Water flea): > 130 mg/l
- 2,6-di-tert-Butyl-p-cresol : EC50/48 h/Daphnia magna (Water flea): 0.61 mg/l
Method: OECD Test Guideline 202

Chronic toxicity to fish

- Methyl methacrylate : NOEC/35 d/Danio rerio (zebra fish): 9.4 mg/l
Method: OECD Test Guideline 210
- Propylidynetrimethyl trimethacrylate : NOEC/32 d/Pimephales promelas (fathead minnow): 0.138 mg/l
Method: OECD Test Guideline 210
- Methacrylic acid : NOEC/35 d/Danio rerio (zebra fish): 10 mg/l

Chronic toxicity to aquatic Invertebrates

- Methyl methacrylate : NOEC/21 d/Daphnia magna (Water flea): 37 mg/l
Method: OECD Test Guideline 211
- Methacrylic acid : NOEC/21 d/Daphnia magna (Water flea): 53 mg/l
- 2,6-di-tert-Butyl-p-cresol : NOEC/21 d/Daphnia magna (Water flea): 0.316 mg/l

Persistence and degradability

- Methyl methacrylate : Result: rapidly biodegradable
Readily biodegradable.
- Propylidynetrimethyl trimethacrylate : Result: Not biodegradable
- Methacrylic acid : Result: rapidly biodegradable
- 2,6-di-tert-Butyl-p-cresol : Result: Not biodegradable

Bioaccumulation

- Methyl methacrylate : Bioaccumulation is unlikely.
- Propylidynetrimethyl trimethacrylate : Bioaccumulation is unlikely.

Mobility in soil

No information available.

Other adverse effects

No information available.

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13. DISPOSAL CONSIDERATIONS

Waste disposal methods : 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.

14. TRANSPORT INFORMATION

NZS 5433

UN number : 1133
UN proper shipping name : ADHESIVES
Transport hazard class : 3
Packing group : II

IMDG

UN number : 1133
UN proper shipping name : ADHESIVES
Transport hazard class : 3
Packing group : II
Marine pollutant : no

IATA

UN number : 1133
UN proper shipping name : ADHESIVES
Transport hazard class : 3
Packing group : II

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable

15. REGULATORY INFORMATION

HSNO Number : HSR002662

Approved Handler : This product must be under the control of an approved handler during use for quantities greater than 250 L (when in containers greater than 5 L) and 500 L (when in containers up to and including 5 L).

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HSNO Controls : F1, F2, F3, F4, F5, F6, F11, F12, F14, F16
T1, T2, T4, T5, T7, T8
E1, E2, E6
I1, I3, I5, I8, I9, I11, I13, I16, I17, I18, I19, I21, I23, I25, I28, I29, I30
P1, P3, P5, P13, P15, PG2, PG3
D2, D4, D5, D6, D7, D8
EM1, EM4, EM6, EM7, EM8, EM9, EM10, EM11, EM12, EM13
AH1

16. OTHER INFORMATION

References

SDS Number: 150000004821

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Before use read DuPont's safety information.

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Significant change from previous version is denoted with a double bar.

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