

SAFETY DATA SHEET



Corian® Joint Adhesive Component A

Version 4.0

Revision Date 16.06.2022

Document no. 15000004821

Issue Date 16.06.2022

This SDS adheres to the standards and regulatory requirements of Australia 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 : Du Pont (Australia) Pty Ltd
Street address : 15 Blackman Crescent
South Windsor NSW 2756
Australia

Telephone : (02) 9923 6111
Telefax : Not available

Emergency telephone number : (02) 9037 2994 (Transport Emergency); (24 hr Emergency Medical Information: 1800 674 415)

2. HAZARDS IDENTIFICATION

Product hazard classification

Flammable solids : Category 1
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A
Skin sensitisation : Category 1
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)
Short-term (acute) aquatic hazard : Category 3
Long-term (chronic) aquatic hazard : Category 3

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

Label content

Pictogram :



Signal word : Danger

Hazardous warnings : Flammable solid.

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Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.

Precautionary statements

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting equipment.
Avoid breathing dust.
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.
Avoid release to the environment.
Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
IF ON SKIN: Wash with plenty of 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 it before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
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	60 - 70%
Polymethyl methacrylate	9011-14-7	20 - 30%
Propylidynetrimethyl trimethacrylate	3290-92-4	1 - 3%
Methacrylic acid	79-41-4	1 - 3%
2-(2H-Benzotriazol-2-yl)-p-cresol	2440-22-4	1 - 3%
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	52829-07-9	0.3 - 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.

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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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam, Water spray, Dry chemical, Carbon dioxide (CO ₂)
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	:	1Z

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

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Handling

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.

Methyl methacrylate		
TWA	50 ppm 208 mg/m ³	AU OEL (2013-04-18)
STEL	100 ppm 416 mg/m ³	AU OEL (2013-04-18)
TWA	50 ppm	ACGIH (2016-03-01)
STEL	100 ppm	ACGIH (2016-03-01)
Methacrylic acid		
TWA	20 ppm 70 mg/m ³	AU OEL (2012-05-04)
TWA	20 ppm	ACGIH (2013-03-01)

Biological occupational exposure limits

No biological exposure limit values are applicable.

Engineering measures : 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

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 : solid
Form : solid
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 : 9 °C

Evaporation rate : No information available.

Flammability : The substance or mixture is a flammable solid with the category 1.

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

Particle characteristics

Assessment : No information available.

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

Auto-ignition temperature

Auto-ignition temperature : not auto-flammable

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Ignition temperature	: 430 °C
Decomposition temperature	: No information available.
Viscosity	
Viscosity, kinematic	: No information available.
Molecular weight	: No information available.
Oxidizing properties	: 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 (CO ₂), Carbon monoxide, Carbon oxides, Smoke, acrid fumes, Acrylic monomers

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Methyl methacrylate	: LD50/Rabbit: 6,550 mg/kg
Polymethyl methacrylate	: LD50/Rabbit: 6,550 mg/kg
	The substance or mixture has no acute oral toxicity Information given is based on data obtained from similar substances.
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
2-(2H-Benzotriazol-2-yl)-p-cresol	: LD50/Rat: 10,000 mg/kg Method: OECD Test Guideline 423
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	: LD50/Rat: 3,700 mg/kg Method: OECD Test Guideline 423

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.
Polymethyl methacrylate	: LC50/4 h/Rat(vapour): 29.8 mg/l The substance or mixture has no acute inhalation toxicity Information given is based on data obtained from similar substances.

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Propylidynetrimethyl trimethacrylate	:	no data available
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-(2H-Benzotriazol-2-yl)-p-cresol	:	LC50/4 h/Rat(dust/mist): 163 mg/l
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	no data available
Dermal		
Methyl methacrylate	:	LD50/Rabbit: > 5,000 mg/kg The substance or mixture has no acute dermal toxicity
Polymethyl methacrylate	:	LD50/Rabbit: > 5,000 mg/kg The substance or mixture has no acute dermal toxicity Information given is based on data obtained from similar substances.
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
2-(2H-Benzotriazol-2-yl)-p-cresol	:	LD50/Rat: > 2,000 mg/kg The substance or mixture has no acute dermal toxicity
Skin corrosion/irritation		
Methyl methacrylate	:	Species: Rabbit Result: Severe skin irritation Classification: Irritating to skin.
Polymethyl methacrylate	:	Species: Rabbit Result: Slight or no skin irritation Classification: No skin irritation Minimal effects that do not meet the threshold for classification.
Propylidynetrimethyl trimethacrylate	:	Species: Rabbit Result: Slight or no skin irritation Classification: No skin irritation Method: OECD Test Guideline 404 Minimal effects that do not meet the threshold for classification.
Methacrylic acid	:	Species: Rabbit Result: Corrosive after 3 minutes or less of exposure Classification: Causes severe burns. Method: OECD Test Guideline 404
2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Rat Result: No skin irritation Classification: Not classified as irritant
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	Species: Rabbit Result: No skin irritation Classification: Not classified as irritant Method: US EPA Test Guideline OPP 81-5
Serious eye damage/eye irritation		
Methyl methacrylate	:	Species: Rabbit Result: No eye irritation

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Polymethyl methacrylate	:	Classification: Not classified as irritant Species: Rabbit Result: Slight or no eye irritation Classification: No eye irritation Minimal effects that do not meet the threshold for classification.
Propylidynetrimethyl trimethacrylate	:	Species: Rabbit Result: Slight or 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-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Rabbit Result: No eye irritation Classification: Not classified as irritant Method: OECD Test Guideline 405
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	Species: Rabbit Result: Irreversible effects on the eye Classification: Risk of serious damage to eyes. Method: OECD Test Guideline 405
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
Polymethyl methacrylate	:	Species: human Result: Does not cause respiratory sensitisation. Classification: Does not cause respiratory sensitisation.
Polymethyl methacrylate	:	Species: Guinea pig Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: Maximisation Test
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
2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Not tested on animals Result: Does not cause respiratory sensitisation. Classification: Does not cause respiratory sensitisation.
2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Guinea pig Result: Probability or evidence of low to moderate skin sensitisation rate in humans Classification: The product is a skin sensitiser, sub-category 1B. Method: OECD Test Guideline 406
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	Maximisation Test Species: Guinea pig

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Result: Does not cause skin sensitisation.
Classification: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

Germ cell mutagenicity

- Methyl methacrylate : Animal testing did not show any mutagenic effects.
- Polymethyl methacrylate : 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. Information given is based on data obtained from similar substances.
- 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-(2H-Benzotriazol-2-yl)-p-cresol : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Carcinogenicity

- Methyl methacrylate : Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
- Polymethyl methacrylate : Weight of evidence does not support classification as a carcinogen. Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.
- Propylidynetrimethyl trimethacrylate : Not classifiable as a human carcinogen. 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-(2H-Benzotriazol-2-yl)-p-cresol : Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : no data available

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.
- Polymethyl methacrylate : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
No effects on or via lactation
Information given is based on data obtained from similar substances.
Teratogenicity: Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.

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- 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-(2H-Benzotriazol-2-yl)-p-cresol : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Teratogenicity: Animal testing showed no developmental toxicity.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : Reproductive toxicity: No toxicity to reproduction
Teratogenicity: No toxicity to reproduction

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.
- Polymethyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- 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, single exposure, category 3 with respiratory tract irritation.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

- Methyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Polymethyl 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.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Aspiration hazard

- Polymethyl methacrylate : No aspiration toxicity classification
- Propylidynetrimethyl trimethacrylate : No aspiration toxicity classification
- Methacrylic acid : No aspiration toxicity classification
- 2-(2H-Benzotriazol-2-yl)-p-cresol : No aspiration toxicity classification
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : No aspiration toxicity classification

Other

- Methyl methacrylate : Repeated dose toxicity:
Oral/Rat
NOAEL: > 3300,
No toxicologically significant effects were found.

- Polymethyl methacrylate : Repeated dose toxicity:
Oral/Rat 2 yr
No observed adverse effect level: 124 mg/kg
Information given is based on data obtained from similar substances., No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
Inhalation/Rat
No observed adverse effect level: 1.64 mg/l
Method: OECD Test Guideline 453
Information given is based on data obtained from similar substances., No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

- Propylidynetrimethyl trimethacrylate : Repeated dose toxicity:
Ingestion/Rat 90 d
NOAEL: 300 mg/kg
LOAEL: 1,000 mg/kg
Method: OECD Test Guideline 408
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-(2H-Benzotriazol-2-yl)-p-cresol : Repeated dose toxicity:
Oral/Rat
NOAEL: 500 mg/kg
Method: OECD Test Guideline 408
Organ weight changes

- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : Repeated dose toxicity:
Ingestion/Rat 90 d
NOAEL: > 277 mg/kg
Method: OECD Test Guideline 408
No toxicologically significant effects were found.

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12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Acute and prolonged toxicity to fish

Methyl methacrylate : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 79 mg/l

Polymethyl methacrylate : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 79 mg/l

Method: EPA OTS 797.1400

Information given is based on data obtained from similar substances.

Propylidynetrimethyl : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 2 mg/l

trimethacrylate

Method: OECD Test Guideline 203

Methacrylic acid

: LC50/96 h/Oncorhynchus mykiss (rainbow trout): 85 mg/l

2-(2H-Benzotriazol-2-yl)-p-cresol

: LC50/96 h/Fish: > 100 mg/l

Method: OECD Test Guideline 203

Bis(2,2,6,6-Tetramethyl-4-

Piperidyl) Sebacate

: LC50/96 h/Lepomis macrochirus (Bluegill sunfish): 4.4 mg/l

Method: OECD Test Guideline 203

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

Polymethyl methacrylate

: EC50/72 h/Pseudokirchneriella subcapitata (green algae): > 110 mg/l

Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances.

NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 110 mg/l

Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances.

Propylidynetrimethyl

trimethacrylate

: EC50/72 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-(2H-Benzotriazol-2-yl)-p-cresol

: ErC50/72 h/Desmodesmus subspicatus (green algae): > 100 mg/l

Method: Directive 67/548/EEC, Annex V, C.3.

NOEC/72 h/Desmodesmus subspicatus (green algae): 33 mg/l

Bis(2,2,6,6-Tetramethyl-4-

Piperidyl) Sebacate

: ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 1.1 mg/l

Method: OECD Test Guideline 201

NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.05 mg/l

Method: OECD Test Guideline 201

Acute toxicity to aquatic invertebrates

Methyl methacrylate

: EC50/48 h/Daphnia magna (Water flea): 69 mg/l

Method: see user defined free text

Polymethyl methacrylate

: LC50/48 h/Daphnia magna (Water flea): 69 mg/l

Method: EPA OTS 797.1300

Information given is based on data obtained from similar substances.

Propylidynetrimethyl

trimethacrylate

: LC50/48 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

Bis(2,2,6,6-Tetramethyl-4-

: EC50/48 h/Daphnia magna (Water flea): 8.58 mg/l

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Piperidyl) Sebacate	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
Polymethyl methacrylate	: NOEC/35 d/Danio rerio (zebra fish): 9.4 mg/l Method: OECD Test Guideline 210 Information given is based on data obtained from similar substances.
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
Polymethyl methacrylate	: NOEC/21 d/Daphnia magna (Water flea): 37 mg/l Method: OECD Test Guideline 211 Information given is based on data obtained from similar substances.
Methacrylic acid	: NOEC/21 d/Daphnia magna (Water flea): 53 mg/l
2-(2H-Benzotriazol-2-yl)-p-cresol	: NOEC/21 d/Daphnia magna (Water flea): 0.013 mg/l Method: OECD Test Guideline 211
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	: NOEC/21 d/Daphnia magna (Water flea): 0.23 mg/l Method: OECD Test Guideline 211
Persistence and degradability	
Methyl methacrylate	: Result: rapidly biodegradable Readily biodegradable.
Polymethyl methacrylate	: Result: Biodegradable Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	: Result: Not biodegradable Not readily biodegradable.
Methacrylic acid	: Result: rapidly biodegradable
2-(2H-Benzotriazol-2-yl)-p-cresol	: Result: Not biodegradable
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	: Exposure time: 28 d Biodegradation: 10 - 24 % Result: Not biodegradable
Bioaccumulation	
Methyl methacrylate	: Bioaccumulation is unlikely.
Polymethyl methacrylate	: Bioaccumulation is unlikely.
Propylidynetrimethyl trimethacrylate	: Bioaccumulation is unlikely.
2-(2H-Benzotriazol-2-yl)-p-cresol	: Method: OECD Test Guideline 305C Bioaccumulation is unlikely.

Mobility in soil

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

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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

ADG

UN number : 1325
UN proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.
(Methyl methacrylate)
Transport hazard class : 4.1
Packing group : II
Hazchem Code : 1Z

IMDG

UN number : 1325
UN proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.
(Methyl methacrylate)
Transport hazard class : 4.1
Packing group : II
Marine pollutant : no

IATA

UN number : 1325
UN proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.
(Methyl methacrylate)
Transport hazard class : 4.1
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

Standard for the Uniform Scheduling of Medicines and Poisons: Schedule 6

16. OTHER INFORMATION

References

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This SDS adheres to the standards and regulatory requirements of Australia 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 B

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 : Du Pont (Australia) Pty Ltd
Street address : 15 Blackman Crescent
South Windsor NSW 2756
Australia

Telephone : (02) 9923 6111
Telefax : Not available

Emergency telephone number : (02) 9037 2994 (Transport Emergency); (24 hr Emergency Medical Information: 1800 674 415)

2. HAZARDS IDENTIFICATION

Product hazard classification

Skin sensitisation : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

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

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary statements : Avoid breathing dust.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves.

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IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/ attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
Oxydipropyl dibenzoate	27138-31-4	20 - 30%
Dibenzoyl peroxide	94-36-0	<10%

4. FIRST AID MEASURES

- Inhalation** : If breathed in, move person into fresh air. Obtain medical attention. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash off immediately with soap and plenty of water.
- Eye contact** : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. In case of eye contact
- 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.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media** : No information available.
- 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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- 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** : 2Z

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Ensure adequate ventilation. Remove all sources of ignition.
- 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

- 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.
- 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 tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage: No materials to be especially mentioned.
- Storage period: Storage temperature: 5 - 23 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Applicable occupational exposure limits are listed below.

Dibenzoyl peroxide		
TWA	5 mg/m ³	AU OEL (2013-04-18)

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TWA	5 mg/m ³	ACGIH (2013-03-01)
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Biological occupational exposure limits

No biological exposure limit values are applicable.

Engineering measures : 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.

Hand protection : polyvinylalcohol (PVA) gloves, Nitrile rubber gloves.

Eye protection : Safety glasses

Skin protection : No information available.

Hygiene measures : Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs. Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state : solid

Form : solid

Colour : white

Odour : odourless

Odour Threshold : not determined

pH : no data available Substance/mixture is non-soluble (in water).

Melting point/freezing point

Melting point/range : not determined

Initial boiling point and boiling range

Boiling point/boiling range : 232 °C

Flash point : 192 °C

Evaporation rate : No information available.

Flammability : No information available.

Upper/lower flammability or explosive limits

Upper explosion limit : not determined

Lower explosion limit : not determined

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Vapour pressure	: not determined
Vapour density	: No information available.
Density	
Density	: 1.16 g/cm ³
Solubility(ies)	
Water solubility	: immiscible
Particle characteristics	
Assessment	: No information available.
Partition coefficient: n-octanol/water	: No information available.
Auto-ignition temperature	
Auto-ignition temperature	: not auto-flammable
Ignition temperature	: 80 °C
Decomposition temperature	: No information available.
Viscosity	
Viscosity, kinematic	: No information available.
Molecular weight	: No information available.
Oxidizing properties	: 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	: Oxidizing agents, Strong acids and strong bases, alkalies, Reducing agents
Hazardous decomposition products	: Decomposes by reaction with alkaline solutions., Hazardous decomposition products, Carbon dioxide (CO ₂), Benzene, Benzoic acid, Biphenyls, Smoke

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Oxydipropyl dibenzoate : LD50/Rat: 3,914 mg/kg

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Dibenzoyl peroxide	:	Method: OECD Test Guideline 401 Central nervous system effects LD50/Rat: > 5,000 mg/kg Method: OECD Test Guideline 401 The substance or mixture has no acute oral toxicity
Inhalation		
Oxydipropyl dibenzoate	:	LC50/4 h/Rat(dust/mist): > 200 mg/l The substance or mixture has no acute inhalation toxicity
Dibenzoyl peroxide	:	LC50/4 h/Rat(dust/mist): > 24.3 mg/l Method: OECD Test Guideline 403 Central nervous system effects, Respiratory effects, eye effects
Dermal		
Oxydipropyl dibenzoate	:	LD50/Rat: > 2,000 mg/kg Method: OECD Test Guideline 402 The substance or mixture has no acute dermal toxicity
Dibenzoyl peroxide	:	no data available
Skin corrosion/irritation		
Oxydipropyl dibenzoate	:	Species: Rabbit Result: No skin irritation Classification: No skin irritation Method: OECD Test Guideline 404
Dibenzoyl peroxide	:	Species: Rabbit Result: No skin irritation Classification: Not classified as irritant Method: OECD Test Guideline 404
Serious eye damage/eye irritation		
Oxydipropyl dibenzoate	:	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.
Dibenzoyl peroxide	:	Species: Rabbit Result: Eye irritation Classification: Irritating to eyes. Method: OECD Test Guideline 405
Respiratory or skin sensitisation		
Oxydipropyl dibenzoate	:	Species: Guinea pig Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Dibenzoyl peroxide	:	Species: Mouse Result: The product is a skin sensitiser, sub-category 1A. Classification: The product is a skin sensitiser, sub-category 1A. Method: OECD Test Guideline 429
Germ cell mutagenicity		
Oxydipropyl dibenzoate	:	In vitro tests did not show mutagenic effects Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Dibenzoyl peroxide	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.


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Carcinogenicity

Dibenzoyl peroxide : Not classifiable as a human carcinogen.
Overall weight of evidence indicates that the substance is not carcinogenic.

Reproductive toxicity

Oxydipropyl dibenzoate : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
No effects on or via lactation
Teratogenicity: Animal testing showed no developmental toxicity.

Dibenzoyl peroxide : Reproductive toxicity: No toxicity to reproduction
Evidence suggests the substance is not a reproductive toxin in animals.
Teratogenicity: Evidence suggests the substance is not a developmental toxin in animals.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

Oxydipropyl dibenzoate : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Oxydipropyl dibenzoate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Dibenzoyl peroxide : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Oxydipropyl dibenzoate : No aspiration toxicity classification
Dibenzoyl peroxide : No aspiration toxicity classification

Other

Oxydipropyl dibenzoate : Repeated dose toxicity:
Ingestion/Rat 90 d
NOAEL: 1,000 mg/kg
Method: OECD Test Guideline 408
No toxicologically significant effects were found.

Dibenzoyl peroxide : Repeated dose toxicity:
Oral/Rat
NOAEL: 500 mg/kg
Method: see user defined free text
No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

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Oxydipropyl dibenzoate	:	LC50/96 h/Pimephales promelas (fathead minnow): 3.7 mg/l Method: OECD Test Guideline 203
Dibenzoyl peroxide	:	LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.602 mg/l Method: OECD Test Guideline 203
Toxicity to aquatic plants		
Oxydipropyl dibenzoate	:	EC50/96 h/Pseudokirchneriella subcapitata (green algae): 3.6 mg/l Method: OECD Test Guideline 201
Dibenzoyl peroxide	:	ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.0711 mg/l Method: OECD Test Guideline 201 NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.02 mg/l Method: OECD Test Guideline 201
Acute toxicity to aquatic invertebrates		
Oxydipropyl dibenzoate	:	EC50/48 h/Daphnia magna (Water flea) Method: OECD Test Guideline 202 Aquatic toxicity is unlikely due to low solubility.
Dibenzoyl peroxide	:	EC50/48 h/Daphnia magna (Water flea): 0.11 mg/l Method: OECD Test Guideline 202
Chronic toxicity to aquatic Invertebrates		
Dibenzoyl peroxide	:	NOEC/21 d/Daphnia magna (Water flea): 0.001 mg/l Method: OECD Test Guideline 211
Persistence and degradability		
Oxydipropyl dibenzoate	:	Result: Biodegradable
Dibenzoyl peroxide	:	Result: Not biodegradable
Bioaccumulation		
Oxydipropyl dibenzoate	:	Bioaccumulation is unlikely.
Mobility in soil		
No information available.		
Other adverse effects		
No information available.		

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	:	If recycling is not practicable, dispose of in compliance with local regulations.

14. TRANSPORT INFORMATION

ADG

UN number	:	3077
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzoyl peroxide)
Transport hazard class	:	9

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Packing group : III
Hazchem Code : 2Z

IMDG

UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Dibenzoyl peroxide)
Transport hazard class : 9
Packing group : III
Marine pollutant : yes (Dibenzoyl peroxide)

IATA

UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Dibenzoyl peroxide)
Transport hazard class : 9
Packing group : III

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 : Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons: Schedule 5

16. OTHER INFORMATION

References

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