

**DuPont™ Joint Adhesive - Component B**

Version 4.0

Revision Date 2013/06/20

Ref. 15000002820

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 : DuPont™ Joint Adhesive - Component B

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives

Supplier : DuPont (New Zealand) Limited
Street address : Central Park Corporate Centre, Level 2, Building 5, 666 Great South Road,
Greenlane, Auckland 1051
New Zealand
Telephone : (64)-9526-2501
Telefax : (64)-9526-2505

Emergency telephone number : NZ Poisons Information Centre Ph: 0800 764766
24-hour Emergency Number: (64)-9526-2501
Issuing date : 2013/06/24

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Not classified as a Dangerous Good under NZS 5433

HSNO Classification:

6.5B : Skin sensitisation
6.8A : Toxic to Reproduction
9.1D : Aquatic toxicity (Acute or Chronic)

Pictogram :



Signal word : Danger

Hazard statements : May cause an allergic skin reaction.
May damage fertility or the unborn child.
Toxic to aquatic life.



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Precautionary statements :

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves.
- IF ON SKIN: Wash with plenty of soap and water.
- IF exposed or concerned: Get medical advice/ attention.
- Specific treatment (see supplemental first aid instructions on this label).
- If skin irritation or rash occurs: Get medical advice/ attention.
- Wash contaminated clothing before reuse.
- Store locked up.
- Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Components

Chemical Name	CAS-No.	Concentration
Mixture of Benzoate Esters	Not disclosed	75 - 95 %
Polyvinyl acetate	9003-20-7	5 - 20 %
Silicon dioxide, amorphous	7631-86-9	1 - 10 %
Dibenzoyl peroxide	94-36-0	0 - 5 %

4. FIRST AID MEASURES

Never give anything by mouth to an unconscious person.

Eye contact : Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing.

Skin contact : Wash off immediately with soap and plenty of water.

Inhalation : Remove from exposure, lie down. Consult a physician after significant exposure.

Ingestion : Clean mouth with water and drink afterwards plenty of water. Ingest activated charcoal. Do not induce vomiting without medical advice.

Most important symptoms : No information available.

Notes to physician : No information available.

5. FIREFIGHTING MEASURES

Specific hazards : Hazardous combustion products

Carbon monoxide Carbon dioxide (CO₂)

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



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- Suitable extinguishing media : Foam, Dry chemical, Carbon dioxide (CO₂)
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Hazchem Code : not applicable

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition.
- Environmental precautions : Prevent product from entering drains.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean with detergents. Avoid solvents.

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.
- Storage temperature: < 30 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits		Regulation
Silicon dioxide, amorphous	TWA	10 mg/m ³	New Zealand. WES. (Workplace Exposure Standards) (07 2011)
Dibenzoyl peroxide	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (2011)
	TWA	5 mg/m ³	New Zealand. WES. (Workplace Exposure Standards) (09 2010)

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

Personal protective equipment

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

Eye protection : Safety glasses

Skin and body protection : No information available.

Respiratory protection : No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

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 : liquid

Form : liquid , oily

Colour : light yellow

Odour : slight

Odour Threshold : no data available

pH : no data available

Melting point/freezing point

no data available

Boiling point/boiling range

Boiling point : 340 °C

Flash point : > 100 °C

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Explosive properties

Upper explosion limit : no data available

Lower explosion limit : no data available

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Vapour pressure	: 1.3 hPa
Vapour density	: 9.6 (Air = 1.0)
Relative density	: no data available
Solubility(ies)	
Water solubility	: 0.03 g/l
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: 103 °C
Viscosity	: no data available
Other data	: Density: 1.03 - 1.07 g/cm ³

10. STABILITY AND REACTIVITY

Stability	: No decomposition if used as directed.
Conditions to avoid	: No information available.
Materials to avoid	: Oxidizing agents, Strong acids and strong bases, alkalies, Reducing agents
Hazardous decomposition products	: No information available.
Possibility of hazardous reactions	: No information available.

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11. TOXICOLOGICAL INFORMATION

- Acute toxicity : Mixture of Benzoate Esters:
- Oral: LD50/rat : > 2,000 mg/kg
Method: OECD Test Guideline 401
Information given is based on data obtained from similar substances.
- Inhalation: LC50/4 h/rat : > 200 mg/l
Method: OECD Test Guideline 403
Information given is based on data obtained from similar substances.
- Dermal: LD50/rat : > 2,000 mg/kg
Method: OECD Test Guideline 402
Information given is based on data obtained from similar substances.
- Polyvinyl acetate:
- Oral: LD50/rat : > 5,000 mg/kg
- Inhalation: LC50/4 h/dog : > 11.02 mg/l
- Silicon dioxide, amorphous:
- Oral: LD50/rat : > 10,000 mg/kg
- Dermal: LD50/rabbit : > 5,000 mg/kg
- Dibenzoyl peroxide:
- Oral: ALD/rat : > 5,000 mg/kg
cardiovascular system effects
- Inhalation: ALC - Approximate Lethal Concentration/4 h/rat : > 24.3 mg/l
Breathing difficulties Incoordination eye effects
- Skin corrosion/irritation : Mixture of Benzoate Esters:
- Species: rabbit
Classification: Not classified as irritant
Result: No skin irritation
Method: OECD Test Guideline 404
Information given is based on data obtained from similar substances.
- Silicon dioxide, amorphous:
- Species: rabbit
Classification: Not classified as irritant
Result: No skin irritation
- Dibenzoyl peroxide:
- Mild skin irritation

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- Serious eye damage/eye irritation : Mixture of Benzoate Esters:
- Species: rabbit
Classification: Not classified as irritant
Result: No eye irritation
Method: OECD Test Guideline 405
Information given is based on data obtained from similar substances.
- Silicon dioxide, amorphous:
- Species: rabbit
Classification: Not classified as irritant
Result: No eye irritation
- Dibenzoyl peroxide:
- Species: rabbit
irritant
- Respiratory sensitisation / Skin sensitisation : Mixture of Benzoate Esters:
- Maximisation Test
Species: guinea pig
Classification: Does not cause skin sensitisation.
Result: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
Information given is based on data obtained from similar substances.
- Polyvinyl acetate:
- Species: human
Classification: Does not cause skin sensitisation.
Result: Patch test on human volunteers did not demonstrate sensitisation properties.
- Silicon dioxide, amorphous:
- Species: human
Classification: Not a skin sensitizer.
Result: Does not cause skin sensitisation.
Patch test on human volunteers did not demonstrate sensitisation properties.
- Result: Does not cause respiratory sensitisation.
- Dibenzoyl peroxide:
- Species: human
May cause sensitisation by skin contact.
- Mutagenicity : Mixture of Benzoate Esters:
- Evidence suggests this substance does not cause genetic damage in animals.


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Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Information given is based on data obtained from similar substances.

Polyvinyl acetate:

Evidence suggests this substance does not cause genetic damage in animals. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Silicon dioxide, amorphous:

Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured mammalian cells. Did not cause genetic damage in cultured bacterial cells.

Dibenzoyl peroxide:

Did not cause genetic damage in cultured bacterial cells. Caused genetic damage in cultured mammalian cells.

Carcinogenicity

: Polyvinyl acetate:

Animal testing did not show any carcinogenic effects.

Silicon dioxide, amorphous:

Overall weight of evidence indicates that the substance is not carcinogenic.

Reproductive toxicity

: Mixture of Benzoate Esters:

Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances.

Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

Silicon dioxide, amorphous:

Evidence suggests the substance is not a reproductive toxin in animals. Evidence suggests the substance is not a developmental toxin in animals.

Dibenzoyl peroxide:

Pathologic effects on reproductive organs

Animal testing showed effects on embryo-foetal development at levels below those causing maternal toxicity. Reduced growth

Target Organs

: no data available

Aspiration toxicity

: no data available

Other

: Mixture of Benzoate Esters:

Repeated dose toxicity: Oral, multiple species


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No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Polyvinyl acetate:

The substance is a polymer and is not expected to produce toxic effects.

Repeated dose toxicity: Inhalation, rat

No toxicologically significant effects were found.

Repeated dose toxicity: Oral, multiple species

No toxicologically significant effects were found.

Repeated dose toxicity: Dermal, rat

No toxicologically significant effects were found.

Silicon dioxide, amorphous:

Repeated dose toxicity: Oral, rat

No toxicologically significant effects were found.

Repeated dose toxicity: Inhalation, multiple species

Reversible, Respiratory Tract, Inflammation

Dibenzoyl peroxide:

Repeated dose toxicity: Dermal

Skin, Inflammation

Repeated dose toxicity: Oral, rat

Organ weight changes, Testes

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Toxicity to fish

: Mixture of Benzoate Esters:

LC50/96 h/Oncorhynchus mykiss (rainbow trout): 2.9 mg/l

Method: OECD Test Guideline 203

Information given is based on data obtained from similar substances.

Silicon dioxide, amorphous:

Aquatic toxicity is unlikely due to low solubility.

Dibenzoyl peroxide:

LC50/96 h/Cyprinodontidae (killifish): 0.24 mg/l

Other

: Mixture of Benzoate Esters:

ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 10.94 mg/l

Method: OECD Test Guideline 201

EbC50/72 h/Pseudokirchneriella subcapitata (green algae): 5.2 mg/l

Method: OECD Test Guideline 201

EC50/48 h/Daphnia magna (Water flea): 6.7 mg/l

Dibenzoyl peroxide:


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ErC50/72 h/Pseudokirchneriella subcapitata: 0.44 mg/l
 EbC50/72 h/Pseudokirchneriella subcapitata: 0.07 mg/l
 EC50/48 h/Daphnia magna (Water flea): 0.07 mg/l

Persistence and degradability : Mixture of Benzoate Esters:
 Readily biodegradable.
 Information given is based on data obtained from similar substances.

Bioaccumulation : Mixture of Benzoate Esters:
 Bioaccumulation is unlikely.
 Information given is based on data obtained from similar substances.

Mobility in soil : no data available

Other adverse effects : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : Do not dispose of waste into sewer. Dispose of as special waste in compliance with local and national regulations.

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

14. TRANSPORT INFORMATION

Not classified as a Dangerous Good under NZS 5433

15. REGULATORY INFORMATION

HSNO Standard Number : HSR002670

HSNO Controls : T1, T2, T3, T4, T5, T7
 E1, E2, E6
 I1, I9, I11, I16, I17, I18, I19, I21, I28, I29
 P1, P3, P13, PG3, PS4
 D4, D5, D6, D7, D8
 EM1, EM6, EM7, EM8, EM11, EM12, EM13

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet : not applicable

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