

**DuPont™ Joint Adhesive 2.0 Component A**

Version 2.0

Revision Date 09/15/2015

Ref. 150000004230

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

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Joint Adhesive 2.0 Component A  
MSDS Number : 150000004230

Product Use : Adhesives

Manufacturer : DuPont  
Building Innovations  
974 Centre Road  
Wilmington, Delaware 19805

Product Information : 1-302-774-1000  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)

Other information : professional use

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Vapours may form explosive mixtures with air.  
Highly flammable.

**Potential Health Effects**

**Skin** : Irritating to skin. May cause sensitisation by skin contact.

**Eyes**

Methyl methacrylate : May cause eye irritation. May cause: Tearing, redness, or discomfort..

Propylidynetrimethyl trimethacrylate : May cause eye irritation.  
May cause: Tearing, redness, or discomfort.

3-Trimethoxysilylpropyl methacrylate : May cause eye irritation.  
May cause: Tearing, redness, or discomfort.

**Inhalation** : Irritating to respiratory system.

**Target Organ**


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Methyl methacrylate : Respiratory system

Primary Routes of Entry : Inhalation, Skin contact

Carcinogenicity  
Material

IARC

OSHA

ACGIH

Titanium dioxide

2B

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Methyl methacrylate	80-62-6	45 - 65 %
Styrene-acrylonitrile copolymer		25 - 40 %
Propylidynetrimethyl trimethacrylate	3290-92-4	<=5 %
3-Trimethoxysilylpropyl methacrylate	2530-85-0	<=5 %
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		<=1 %

**SECTION 4. FIRST AID MEASURES**

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

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.



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- 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.
- General advice : Never give anything by mouth to an unconscious person.

**SECTION 5. FIREFIGHTING MEASURES**

Flammable Properties

Flash point : 10 °C (50 °F) closed cup

Ignition temperature : 430 °C (806 °F)

Lower explosion limit/ lower flammability limit : 2.1 vol%

Upper explosion limit/ upper flammability limit : 12.5 vol%

Fire and Explosion Hazard : Hazardous combustion products  
Carbon monoxide Carbon dioxide (CO2) Biphenyls

Suitable extinguishing media : Water spray, Foam, Dry powder, Carbon dioxide (CO2), Keep containers and surroundings cool with water spray.

Unsuitable extinguishing media : Do NOT use water jet.

Firefighting Instructions : Wear self-contained breathing apparatus and protective suit. 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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**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) : Ensure adequate ventilation. Remove all sources of ignition.
- Spill Cleanup : Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean with detergents. Avoid solvents.
- Accidental Release Measures : Prevent product from entering drains.

**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, drink and animal feedingstuffs. 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.
- Storage : Keep tightly closed in a dry, cool and well-ventilated place. No materials to be especially mentioned.
- Storage period : <= 24 Months
- Storage temperature : 13 - 24 °C (55 - 75 °F)

**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



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filter, type A (EN 141)

Hand protection : Additional protection: Rubber gloves

Eye protection : Safety glasses

Skin and body protection : Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.  
Impervious gloves  
Preventive skin protection

Exposure Guidelines  
Exposure Limit Values

Methyl methacrylate				
TLV	(ACGIH)	50 ppm	TWA	
TLV	(ACGIH)	100 ppm	STEL	
Titanium dioxide				
TLV	(ACGIH)	10 mg/m3	TWA	
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.
Carbon black				
TLV	(ACGIH)	3 mg/m3	TWA	Inhalable fraction.
AEL *	(DUPONT)	0.5 mg/m3	8 & 12 hr. TWA	Polynuclear Aromatic Hydrocarbons (PAH) < 0.1%
Methyl methacrylate				
TLV	(ACGIH)	50 ppm	TWA	
TLV	(ACGIH)	100 ppm	STEL	
Titanium dioxide				
TLV	(ACGIH)	10 mg/m3	TWA	
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.



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AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.
Styrene				
TLV	(ACGIH)	20 ppm	TWA	
TLV	(ACGIH)	40 ppm	STEL	
Tetrahydrofuran				
TLV	(ACGIH)	50 ppm	TWA	
TLV	(ACGIH)	100 ppm	STEL	
AEL *	(DUPONT)	50 ppm	8 & 12 hr. TWA,	Skin
Carbon black				
TLV	(ACGIH)	3 mg/m3	TWA	Inhalable fraction.
AEL *	(DUPONT)	0.5 mg/m3	8 & 12 hr. TWA	Polynuclear Aromatic Hydrocarbons (PAH) < 0.1%
Acrylonitrile				
TLV	(ACGIH)	2 ppm	TWA	
AEL *	(DUPONT)	0.5 ppm	8 & 12 hr. TWA,	Skin
AEL *	(DUPONT)	1 ppm	15 minute TWA,	Skin
Methyloxirane				
TLV	(ACGIH)	2 ppm	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**

Form : liquid  
 Color : various

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Odor : acrylic-like  
pH : Not applicable  
Vapour Pressure : 39 hPa at 20 °C (68 °F)  
Density : ca. 1.0 g/cm<sup>3</sup>  
Specific gravity : ca. 1.0  
Water solubility : partly miscible  
Viscosity : no data available

**SECTION 10. STABILITY AND REACTIVITY**

Stability : No decomposition if used as directed.

Conditions to avoid : Heat  
Direct sunlight.

Incompatibility : Reducing agents  
Oxidizing agents

Hazardous decomposition products : To avoid thermal decomposition, do not overheat.

Hazardous reactions : Susceptible to polymerization initiated by prolonged heating or the presence of initiator.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Methyl methacrylate  
Dermal LD50 : > 5,000 mg/kg , Rabbit

Oral LD50 : 6,550 mg/kg , Rabbit

Inhalation 4 h LC50 : 29.8 mg/l , Rat  
Target Organs: Respiratory system

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



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Repeated dose toxicity : Oral  
Rat

No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.  
Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.

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

Teratogenicity : Animal testing showed no developmental toxicity.

Styrene-acrylonitrile copolymer

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

Oral LD50 : > 5,000 mg/kg , Rat

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

Propylidynetrimethyl trimethacrylate

Dermal LD50 : 17,000 mg/kg , Rabbit

Oral LD50 : 25,530 mg/kg , Rat

Skin irritation : slight irritation, Rabbit

Eye irritation : slight irritation, Rabbit

Skin sensitization : Did not cause sensitisation on laboratory animals., Guinea pig  
There are rare or inconclusive reports of human skin sensitization.

Repeated dose toxicity : Oral  
Rat

No adverse effect has been observed in chronic toxicity tests.

Dermal  
Rabbit

No adverse effect has been observed in chronic toxicity tests.





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Mutagenicity : Animal testing did not show any mutagenic effects.  
 Overall weight of evidence indicates that the substance is not mutagenic.  
 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 no developmental toxicity.

3-Trimethoxysilylpropyl methacrylate  
 Dermal LD50 : > 2,000 mg/kg , Rat

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

Inhalation : Rat  
 An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit

Repeated dose toxicity : Inhalation  
 Rat  
 Respiratory irritation, No toxicologically significant effects were found.

Carcinogenicity : no data available

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 data available


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**SECTION 12. ECOLOGICAL INFORMATION**
**Aquatic Toxicity**
**Methyl methacrylate**

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

**Styrene-acrylonitrile copolymer**

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

**Propylidynetrimethyl trimethacrylate**

- |            |   |   |
|------------|---|---|
| 96 h LC50  | : | Oncorhynchus mykiss (rainbow trout) 1 - 10 mg/l           |
| 72 h ErC50 | : | Pseudokirchneriella subcapitata (green algae) 1 - 10 mg/l |

**3-Trimethoxysilylpropyl methacrylate**

- |            |   |  |
|------------|---|--|
| 96 h LC50  | : | Danio rerio (zebra fish) > 100 mg/l Directive 67/548/EEC, Annex V, C.1.              |
| 72 h ErC50 | : | Desmodesmus subspicatus (green algae) > 100 mg/l Directive 67/548/EEC, Annex V, C.3. |
| 72 h NOEC  | : | Desmodesmus subspicatus (green algae) > 100 mg/l Directive 67/548/EEC, Annex V, C.3. |
| 48 h EC50  | : | Daphnia magna (Water flea) > 100 mg/l Directive 67/548/EEC, Annex V, C.2.            |

**Environmental Fate**



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Methyl methacrylate

Biodegradability : rapidly biodegradable OECD Test Guideline 301C  
Readily biodegradable

Bioaccumulation : Bioaccumulation is unlikely.

Propylidynetrimethyl trimethacrylate

Biodegradability : 50 - 59 %  
Not readily biodegradable.

3-Trimethoxysilylpropyl methacrylate

Biodegradability : Biodegradable 69 % OECD Test Guideline 301F

**SECTION 13. DISPOSAL CONSIDERATIONS**

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

Environmental Hazards : Dispose of in accordance with local regulations.

**SECTION 14. TRANSPORT INFORMATION**

TDG_ROAD	UN number	: 1133
	Proper shipping name	: ADHESIVES
	Class	: 3
	Packing group	: II
TDG_RAIL	Labelling No.	: 3
	UN number	: 1133
	Proper shipping name	: ADHESIVES
	Class	: 3
IATA_C	Packing group	: II
	Labelling No.	: 3
	UN number	: 1133



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	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**

DSL	:	All components of this product are on the Canadian DSL
WHMIS Classification	:	B2 - Flammable liquid D2B - Toxic Material Causing Other Toxic Effects Moderate skin irritant, Mild eye irritant, Moderate respiratory irritant
Remarks	:	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**SECTION 16. OTHER INFORMATION**

MSDS preparation date	:	09/15/2015
Restrictions for use	:	Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.



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Before use read DuPont's safety information.

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

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