

**DuPont™ Joint Adhesive - Component A**

Version 6.0

Issue Date : 05/30/2020 Ref. 150000002819  
Revision Date : 05/29/2020

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

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Joint Adhesive - Component A  
Product Use : Adhesives and/or sealants, For professional users only.

Restrictions on use : Do not use product for anything outside of the above specified uses.  
Manufacturer/Supplier : DuPont  
974 Centre Road  
Wilmington, Delaware 19805

Product Information : +1-800-441-7515 (outside the U.S. +1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : +1-800-424-9300 (outside the U.S. +1-703-527-3887)

Other information : professional use

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

Flammable liquids	Category 2
Skin irritation	Category 2
Skin sensitisation	Category 1
Specific target organ toxicity - single exposure	Category 3

**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.  
May cause respiratory irritation.

Hazardous prevention measures : 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.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/ eye protection/ face protection.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/ doctor if you feel unwell.  
If skin irritation or rash occurs: 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 to extinguish.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store in a secure area.  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

Vapours may form explosive mixtures with air.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 32.0974 %

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

Component	CAS-No.	Concentration
Methyl methacrylate	80-62-6	40 - 50 %
Aluminum hydroxide	21645-51-2	20 - 30 %
Butyl methacrylate	97-88-1	5 - 10 %
2-(2H-Benzotriazol-2-yl)-p-cresol	2440-22-4	0.1 - 1 %

**SECTION 4. FIRST AID MEASURES**

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

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

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

Most important symptoms/effects, acute and delayed : No applicable data available.

Protection of first-aiders : No applicable data available.

Notes to physician : No applicable data available.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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Unsuitable extinguishing media : No applicable data available.

Specific hazards : Hazardous combustion products  
 Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Biphenyls

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

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

### SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions : Prevent product from entering drains.

Spill Cleanup : Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean with detergents. Avoid solvents.

Accidental Release Measures : No applicable data available.

### SECTION 7. HANDLING AND STORAGE

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

Dust explosion class : No applicable data available.

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


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No materials to be especially mentioned.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

Personal protective equipment

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

Hand protection : Additional protection: Rubber gloves

Eye protection : Safety glasses

Exposure Guidelines

Exposure Limit Values

<b>Methyl methacrylate</b>			
TLV	(ACGIH)	50 ppm	TWA
TLV	(ACGIH)	100 ppm	STEL
REL	(NIOSH)	100 ppm 410 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm 410 mg/m3	8 hr. TWA
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm 410 mg/m3	TWA

<b>Aluminum hydroxide</b>			
TLV	(ACGIH)	1 mg/m3	TWA Respirable particulate matter Aluminium

<b>Butyl methacrylate</b>			
AEL *	(DuPont)	50 ppm	8 & 12 hr. TWA

<b>2-(2H-Benzotriazol-2-yl)-p-cresol</b>			
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No applicable data available.
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\* 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**

## Appearance

Physical state : liquid  
Form : liquid  
Color : various

Odor : acrylic-like

Odor threshold : No applicable data available.

pH : Not applicable

Melting point/range : No applicable data available.

Boiling point/boiling range : Boiling point  
> 35 °C (> 95 °F)Flash point : 10 °C  
closed cup

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : 12.5 vol%

Lower explosion limit : 2.1 vol%

Vapor pressure : 39 hPa at 20 °C (68 °F)

Vapour density : No applicable data available.

Density : 1.2 - 1.24 g/cm<sup>3</sup>

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

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Water solubility : partly miscible  
Solubility(ies) : No applicable data available.  
Partition coefficient: n-octanol/water : No applicable data available.  
Auto-ignition temperature : No applicable data available.  
Ignition temperature : 430 °C  
Decomposition temperature : No applicable data available.  
Viscosity, kinematic : No applicable data available.  
Viscosity, dynamic : no data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No applicable data available.  
Chemical stability : No decomposition if used as directed.  
Possibility of hazardous reactions : No applicable data available.  
Conditions to avoid : No applicable data available.  
Incompatible materials : Reducing agents Oxidizing agents  
Hazardous decomposition products : No applicable data available.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Methyl methacrylate  
Inhalation 4 h LC50 : 29.8 mg/l , Rat  
Target Organs: Respiratory system  
Dermal LD50 : > 5,000 mg/kg , Rabbit  
Oral LD50 : 6,550 mg/kg , Rabbit  
Skin irritation : Severe skin irritation, Rabbit  
Eye irritation : No eye irritation, Rabbit



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- Skin sensitization : May cause sensitisation by skin contact., Guinea pig  
Does not cause respiratory sensitisation., human
- Repeated dose toxicity : Oral  
Rat  
-  
NOAEL: > 3300,  
No toxicologically significant effects were found.
- Carcinogenicity : Not classifiable as a human carcinogen.  
Animal testing did not show any carcinogenic effects.
- Mutagenicity : Animal testing did not show any mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction  
No effects on or via lactation  
Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed no developmental toxicity.
- Aluminum hydroxide
- Dermal Acute toxicity estimate : > 2,000 mg/kg , Rat
- Oral LD50 : > 2,000 mg/kg , Rat
- Skin irritation : Slight or no skin irritation, Rabbit  
Minimal effects that do not meet the threshold for classification.
- Eye irritation : Slight or no eye irritation, Rabbit  
Minimal effects that do not meet the threshold for classification.
- Skin sensitization : Does not cause skin sensitisation., Guinea pig  
Does not cause respiratory sensitisation., Mouse  
Information given is based on data obtained from similar substances.
- Repeated dose toxicity : Ingestion  
Rat  
- 28 d  
NOAEL: 302 mg/kg  
No toxicologically significant effects were found.
- Inhalation





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Rat  
 - 12 Months  
 dust/mistMethod: OECD Test Guideline 413  
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

- Carcinogenicity : Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.
- Mutagenicity : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured mammalian cells.
- Reproductive toxicity : No toxicity to reproduction  
 Animal testing showed no reproductive toxicity.  
 Information given is based on data obtained from similar substances.
- Teratogenicity : Animal testing showed no developmental toxicity.

Butyl methacrylate

- Inhalation 4 h LC50 : > 27 mg/l , Rat  
 Target Organs: Respiratory system
- Dermal LD50 : > 2,000 mg/kg , Rabbit
- Oral LD50 : > 2,000 mg/kg , Rat
- Skin irritation : Severe skin irritation, Rabbit
- Eye irritation : Slight or no eye irritation, Rabbit  
 Minimal effects that do not meet the threshold for classification.
- Skin sensitization : Probability or evidence of low to moderate skin sensitisation rate in humans, Mouse
- Repeated dose toxicity : Ingestion  
 Rat  
 - 90 d  
 NOAEL: 120 mg/kgMethod: OECD Test Guideline 408  
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
- Carcinogenicity : Not classifiable as a human carcinogen.  
 Animal testing did not show any carcinogenic effects.



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Information given is based on data obtained from similar substances.

- Mutagenicity : Animal testing did not show any mutagenic effects.  
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction  
 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.

2-(2H-Benzotriazol-2-yl)-p-cresol  
 Inhalation 4 h LC50

- : 163 mg/l , Rat
- Dermal LD50 : > 2,000 mg/kg , Rat
- Oral LD50 : 10,000 mg/kg , Rat
- Skin irritation : No skin irritation, Rat
- Eye irritation : No eye irritation, Rabbit
- Skin sensitization : Probability or evidence of low to moderate skin sensitisation rate in humans, Guinea pig
- Repeated dose toxicity : Oral  
 Rat  
 -  
 NOAEL: 500 mg/kg Method: OECD Test Guideline 408  
 Organ weight changes
- Carcinogenicity : Not classifiable as a human carcinogen.  
 Animal testing did not show any carcinogenic effects.
- Mutagenicity : Animal testing did not show any mutagenic effects.  
 Did not cause genetic damage in cultured bacterial cells.
- Reproductive toxicity : No toxicity to reproduction  
 Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed no developmental toxicity.

Carcinogenicity



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The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

Material	IARC	NTP	OSHA
Silicon dioxide, amorphous	1	X	
Titanium dioxide	2B		
Carbon black	2B		

**SECTION 12. ECOLOGICAL INFORMATION**

**Aquatic Toxicity**

**Methyl methacrylate**

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

**Aluminum hydroxide**

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout)  
 Aquatic toxicity is unlikely due to low solubility.  
 Information given is based on data obtained from similar substances.
- 72 h EC50 : Pseudokirchneriella subcapitata (green algae)  
 Aquatic toxicity is unlikely due to low solubility.  
 Information given is based on data obtained from similar substances.
- 72 h NOEC : Pseudokirchneriella subcapitata (green algae) OECD Test Guideline



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Aquatic toxicity is unlikely due to low solubility.

Information given is based on data obtained from similar substances.

- 48 h EC50 : Ceriodaphnia dubia (water flea)  
Aquatic toxicity is unlikely due to low solubility.  
Information given is based on data obtained from similar substances.
- 28 d : NOEC Pimephales promelas (fathead minnow)  
Due to its physical properties, there is no potential for adverse effects.  
Information given is based on data obtained from similar substances.
- 28 d : NOEC Daphnia magna (Water flea)  
Due to its physical properties, there is no potential for adverse effects.  
Information given is based on data obtained from similar substances.

### Butyl methacrylate

- 96 h LC50 : Oryzias latipes (Orange-red killifish) 5.57 mg/l OECD Test Guideline 203
- 72 h EC50 : Pseudokirchneriella subcapitata (green algae) 31.2 mg/l OECD Test Guideline 201
- 72 h NOEC : Pseudokirchneriella subcapitata (green algae) 24.8 mg/l OECD Test Guideline 201
- 48 h LC50 : Daphnia magna (Water flea) 25.4 mg/l OECD Test Guideline 202
- 21 d : NOEC Daphnia magna (Water flea) 1.1 mg/l OECD Test Guideline 211

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

- 96 h LC50 : Fish > 100 mg/l OECD Test Guideline 203
- 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) 33 mg/l
- 21 d : NOEC Daphnia magna (Water flea) 0.013 mg/l OECD Test Guideline 211

### Environmental Fate

### Methyl methacrylate



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

Bioaccumulation : Bioaccumulation is unlikely.

Butyl methacrylate

Biodegradability : Biodegradable OECD Test Guideline 301C  
 Readily biodegradable.

Bioaccumulation : Bioaccumulation is unlikely.

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

Bioaccumulation : OECD Test Guideline 305C  
 Bioaccumulation is unlikely.

### SECTION 13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging : Dispose of in accordance with local regulations.

### SECTION 14. TRANSPORT INFORMATION

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

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**SECTION 15. REGULATORY INFORMATION**

- TSCA : On the inventory, or in compliance with the inventory
- SARA 311/312 Hazard classification : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Respiratory or skin sensitisation  
Specific target organ toxicity (single or repeated exposure)
- SARA 313 Regulated Chemical(s) : The following components are subject to reporting levels established by SARA Title III, Section 313: Methyl methacrylate
- PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Methyl methacrylate, Butyl methacrylate, Silicon dioxide, amorphous, n-Butyl acetate, 29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper, Zinc sulphide
- NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Methyl methacrylate, Butyl methacrylate, Carbon black
- California Prop. 65 : This product can expose you to substances including Silicon dioxide, amorphous, which is/are known to the State of California to cause cancer, and Methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**SECTION 16. OTHER INFORMATION**

- 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,



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please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.

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.