

SAFETY DATA SHEET



DuPont™ Joint Adhesive - Component A

Version 5.0

Revision Date 07.05.2014

Document no. 150000002819

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 : DuPont™ Joint Adhesive - Component A

Recommended use of the chemical and restriction on use
Recommended use : Adhesives

Manufacturer, importer, supplier
Company : Du Pont (Australia) Pty Ltd
Street address : 7 Eden Park Drive
Macquarie Park NSW 2113
Australia
Telephone : (02) 9923 6111
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Emergency telephone number : (02) 9923 6275 (Transport Emergency)
(24 hr Emergency Medical Information: 1800 674 415)

2. HAZARDS IDENTIFICATION

Product hazard classification

Flammable liquids : Category 2
Skin corrosion/irritation : Category 2
Skin sensitisation : Category 1
Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)
Acute aquatic toxicity : Category 2
Chronic aquatic toxicity : Category 2

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

Label content

Pictogram :



Signal word : Danger

Hazardous warnings : Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

Precautionary statements : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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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.
 Avoid release to the environment.
 Wear protective gloves/ eye protection/ face protection.
 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
 Rinse skin with water/ shower.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician 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 for extinction.
 Collect spillage.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Vapours may form explosive mixtures with air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical Name	CAS-No.	Concentration
Methyl methacrylate	80-62-6	35 - 55%
Poly(Ethyl Acrylate/Methyl Methacrylate)	9010-88-2	20 - 40%
Aluminium hydroxide	21645-51-2	10 - 40%
Propylidynetrimethyl trimethacrylate	3290-92-4	0 - 5%
Butyl methacrylate	97-88-1	0 - 5%
Silicon dioxide, amorphous	7631-86-9	<3%
Pigments		<=1%
2-(2H-Benzotriazol-2-yl)-p-cresol	2440-22-4	<1%
n-Butyl acetate	123-86-4	<1%

4. FIRST AID MEASURES

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.


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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 information available.

Protection of first-aiders : No information available.

Notes to physician : No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam, Dry chemical, Carbon dioxide (CO₂)

Specific hazards : Hazardous combustion products
Carbon monoxide Carbon dioxide (CO₂) Biphenyls

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

Specific extinguishing methods : No information available.

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

Hazchem Code : .3YE

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.

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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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Chemical Name	Occupational Exposure Limits	Regulation
Methyl methacrylate		
STEL	100 ppm 416 mg/m ³	AU OEL (08 2005)
	Can be absorbed through skin.	AU OEL (08 2005)
TWA	50 ppm 208 mg/m ³	AU OEL (08 2005)
TWA	50 ppm	US ACGIH (2011)
STEL	100 ppm	US ACGIH (2011)
Aluminium hydroxide		
TWA	1 mg/m ³ (Respirable fraction.)	US ACGIH (2011)
Silicon dioxide, amorphous		
TWA	2 mg/m ³ (Respirable fraction.)	AU OEL (08 2005)
Titanium dioxide		
TWA	10 mg/m ³ (Inspirable dust.)	AU OEL (08 2005)
TWA	10 mg/m ³	US ACGIH (2011)

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

Biological occupational exposure limits : No information available.

Personal protective equipment

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

Hand protection : 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 : liquid

Form : liquid

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Colour	:	various
Odour	:	acrylic-like
Odour Threshold	:	No information available.
pH	:	not applicable
Melting point/freezing point		No information available.
Initial boiling point and boiling range		No information available.
Flash point	:	10 °C closed cup
Evaporation rate	:	No information available.
Flammability (solid, gas)	:	No information available.
Upper/lower flammability or explosive limits		
Upper explosion limit	:	12.5 vol%
Lower explosion limit	:	2.1 vol%
Vapour pressure	:	39 hPa (20 °C)
Vapour density	:	No information available.
Density		
Density	:	1.2 - 1.24 g/cm ³
Solubility(ies)		
Water solubility	:	partly miscible
Partition coefficient: n-octanol/water	:	No information available.
Auto-ignition temperature		
Auto-ignition temperature	:	430 °C
Decomposition temperature	:	No information available.
Viscosity		
Viscosity, kinematic	:	No information available.
Viscosity, dynamic	:	no data available
Molecular weight	:	No information available.

10. STABILITY AND REACTIVITY

Reactivity	:	No information available.
Chemical stability	:	No decomposition if used as directed.

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- Possibility of hazardous reactions** : No information available.
- Conditions to avoid** : No information available.
- Materials to avoid** : Reducing agents, Oxidizing agents
- Hazardous decomposition products** : No information available.

11. TOXICOLOGICAL INFORMATION
Acute toxicity
Oral

- Methyl methacrylate : LD50/rabbit: 6,550 mg/kg
- Poly(Ethyl Acrylate/Methyl Methacrylate) : LD50/rat: > 5,000 mg/kg
- Aluminium hydroxide : LD50/rat: > 2,000 mg/kg
Method: OECD Test Guideline 423
- Propylidynetrimethyl trimethacrylate : LD50/rat: 25,530 mg/kg
- Butyl methacrylate : LD50/rat: > 2,000 mg/kg
Method: OECD Test Guideline 401
- Silicon dioxide, amorphous : LD50/rat: > 5,000 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
- n-Butyl acetate : LD50/rat: 14,130 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.
- Butyl methacrylate : LC50/4 h/rat(vapour): 29 mg/l
Target Organs: Respiratory Tract
Respiratory tract irritation
- Silicon dioxide, amorphous : LC50/4 h/rat(dust/mist)
Method: OECD Test Guideline 403
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : LC50/4 h/rat(dust/mist): 163 mg/l
- n-Butyl acetate : LC50/4 h/rat(vapour): > 21.1 mg/l
Method: OECD Test Guideline 403
Target Organs: Central nervous system
Central nervous system depression

Dermal

- Methyl methacrylate : LD50/rabbit: > 5,000 mg/kg
- Poly(Ethyl Acrylate/Methyl Methacrylate) : LD50/rabbit: > 5,000 mg/kg
- Propylidynetrimethyl trimethacrylate : LD50/rabbit: 17,000 mg/kg
- Butyl methacrylate : LD50/rabbit: > 2,000 mg/kg
Method: OECD Test Guideline 402
- Silicon dioxide, amorphous : LD50/rabbit: > 5,000 mg/kg
- 2-(2H-Benzotriazol-2-yl)-p-cresol : LD50/rat: > 2,000 mg/kg

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n-Butyl acetate : LD50/rabbit: > 14,112 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Methyl methacrylate : Species: rabbit
Result: Severe skin irritation
Classification: Irritating to skin.

Poly(Ethyl Acrylate/Methyl Methacrylate) : Species: rabbit
Result: No skin irritation
Classification: Not classified as irritant
slight irritation

Aluminium hydroxide : Species: rabbit
Result: No skin irritation
Classification: Not classified as irritant
Method: OECD Test Guideline 404

Propylidynetrimethyl trimethacrylate : Species: rabbit
Result: slight irritation
Classification: Not classified as irritant

Butyl methacrylate : Species: rabbit
Result: Severe skin irritation
Classification: Irritating to skin.
Method: OECD Test Guideline 404

Silicon dioxide, amorphous : Species: rabbit
Result: No skin irritation
Classification: Not classified as irritant

2-(2H-Benzotriazol-2-yl)-p-cresol : Species: rat
Result: No skin irritation
Classification: Not classified as irritant

n-Butyl acetate : Species: rabbit
Result: No skin irritation
Classification: Not classified as irritant
Method: OECD Test Guideline 404
slight irritation

Serious eye damage/eye irritation

Methyl methacrylate : Species: rabbit
Result: No eye irritation
Classification: Not classified as irritant

Poly(Ethyl Acrylate/Methyl Methacrylate) : Species: rabbit
Result: No eye irritation
Classification: Not classified as irritant
slight irritation

Aluminium hydroxide : Species: rabbit
Result: No eye irritation
Classification: Not classified as irritant
Method: OECD Test Guideline 405

Propylidynetrimethyl trimethacrylate : Species: rabbit
Result: slight irritation
Classification: Not classified as irritant

Butyl methacrylate : Species: rabbit
Result: Eye irritation
Classification: Irritating to eyes.
Method: OECD Test Guideline 405

Silicon dioxide, amorphous : Species: rabbit
Result: No eye irritation
Classification: Not classified as irritant

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2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: rabbit Result: No eye irritation Classification: Not classified as irritant Method: OECD Test Guideline 405
n-Butyl acetate	:	Species: rabbit Result: No eye irritation Classification: Not classified as irritant Method: OECD Test Guideline 405 slight irritation
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
Poly(Ethyl Acrylate/Methyl Methacrylate)	:	Species: human Result: Does not cause respiratory sensitisation. Classification: Does not cause respiratory sensitisation. Species: human Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Patch test on human volunteers did not demonstrate sensitisation properties.
Aluminium hydroxide	:	Species: guinea pig Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Propylidynetrimethyl trimethacrylate	:	Species: mouse Result: Does not cause respiratory sensitisation. Classification: Does not cause respiratory sensitisation. Information given is based on data obtained from similar substances. Maximisation Test (GPMT) Species: guinea pig Result: Did not cause sensitisation on laboratory animals. Classification: Not a skin sensitizer. There are rare or inconclusive reports of human skin sensitization.
Butyl methacrylate	:	Maximisation Test (GPMT) Species: guinea pig Result: Causes sensitisation. Classification: May cause sensitisation by skin contact. Method: OECD Test Guideline 406
Silicon dioxide, amorphous	:	Species: human Result: Does not cause skin sensitisation. Classification: Does not cause skin 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 sensitizer, sub-category 1B. Method: OECD Test Guideline 406
n-Butyl acetate	:	Maximisation Test (GPMT) Species: guinea pig Result: Does not cause skin sensitisation. Classification: Not a skin sensitizer. Method: OECD Test Guideline 406

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Species: mouse
 Result: Does not cause respiratory sensitisation.
 Classification: Not a sensitizer by inhalation.

Germ cell mutagenicity

Methyl methacrylate : Animal testing did not show any mutagenic effects.
 Aluminium hydroxide : Animal testing did not show any mutagenic effects.
 Propylidynetrimethyl trimethacrylate : Overall weight of evidence indicates that the substance is not mutagenic. 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.
 Butyl methacrylate : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Silicon dioxide, amorphous : Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 2-(2H-Benzotriazol-2-yl)-p-cresol : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells.
 n-Butyl acetate : Animal testing did not show any mutagenic effects. Information given is based on data obtained from similar substances. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Methyl methacrylate : Animal testing did not show any carcinogenic effects.
 Aluminium hydroxide : Not classifiable as a human carcinogen.
 Butyl methacrylate : Animal testing did not show any carcinogenic effects.
 Silicon dioxide, amorphous : Not classifiable as a human carcinogen.
 2-(2H-Benzotriazol-2-yl)-p-cresol : Not classifiable as a human carcinogen.
 n-Butyl acetate : Overall weight of evidence indicates that the substance is not carcinogenic. Information given is based on data obtained from similar substances.

Reproductive toxicity

Methyl methacrylate : Reproductive toxicity: No toxicity to reproduction
 No effects on or via lactation
 Teratogenicity: Animal testing showed no developmental toxicity.
 Aluminium hydroxide : 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.
 Propylidynetrimethyl trimethacrylate : Reproductive toxicity: Animal testing showed no reproductive toxicity.
 Teratogenicity: Animal testing showed no developmental toxicity.
 Butyl methacrylate : Reproductive toxicity: 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.
 Reduced growth
 Foetal malformations
 Silicon dioxide, amorphous : Reproductive toxicity: No toxicity to reproduction
 Animal testing showed no reproductive toxicity.
 Teratogenicity: Animal testing showed no developmental toxicity.

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- 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.
- n-Butyl acetate : Reproductive toxicity: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Specific Target Organ Toxicity
Specific target organ toxicity - single exposure

- Methyl methacrylate : Target Organs: Respiratory system
- Propylidynetrimethyl trimethacrylate : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Butyl methacrylate : Target Organs: Respiratory Tract
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
- Silicon dioxide, amorphous : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- n-Butyl acetate : Target Organs: Central nervous system
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Specific target organ toxicity - repeated exposure

- Methyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Aluminium hydroxide : 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.
- Butyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Silicon dioxide, amorphous : 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.
- n-Butyl acetate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

- Poly(Ethyl Acrylate/Methyl Methacrylate) : No aspiration toxicity classification
- Aluminium hydroxide : No aspiration toxicity classification
- Butyl methacrylate : No aspiration toxicity classification
- Silicon dioxide, amorphous : No aspiration toxicity classification
- 2-(2H-Benzotriazol-2-yl)-p-cresol : No aspiration toxicity classification
- n-Butyl acetate : No aspiration toxicity classification

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Other

Methyl methacrylate	:	Repeated dose toxicity: Oral/rat NOAEL: > 3300, No toxicologically significant effects were found.
Aluminium hydroxide	:	Repeated dose toxicity: Oral/rat No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	:	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.
Butyl methacrylate	:	Repeated dose toxicity: Inhalation/rat Respiratory tract irritation, Eye irritation, Reversible, altered hematology
Silicon dioxide, amorphous	:	Repeated dose toxicity: Oral/rat NOAEL: 4,000 mg/kg Method: OECD Test Guideline 408 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
n-Butyl acetate	:	Repeated dose toxicity: Inhalation/rat No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects
Acute and prolonged toxicity to fish

Methyl methacrylate	:	LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 79 mg/l
Aluminium hydroxide	:	LC50/96 h/Fish: 0.599 mg/l Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	:	LC50/96 h/Oncorhynchus mykiss (rainbow trout): 1 - 10 mg/l
Butyl methacrylate	:	LC50/96 h/Oryzias latipes (medaka): 5.57 mg/l Method: OECD Test Guideline 203
Silicon dioxide, amorphous	:	LC50/96 h/Danio rerio (zebra fish): 10,000 mg/l Method: OECD Test Guideline 203
2-(2H-Benzotriazol-2-yl)-p-cresol	:	LC50/96 h/Fish: > 100 mg/l Method: OECD Test Guideline 203
n-Butyl acetate	:	LC50/96 h/Pimephales promelas (fathead minnow): 18 mg/l Method: OECD Test Guideline 203

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Toxicity to aquatic plants	
Methyl methacrylate	: ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 110 mg/l Method: OECD Test Guideline 201 NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 110 mg/l Method: OECD Test Guideline 201
Aluminium hydroxide	: ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.46 mg/l Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	: ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 1 - 10 mg/l
Butyl methacrylate	: ErC50/96 h/Pseudokirchneriella subcapitata (green algae): 130 mg/l Method: OECD Test Guideline 201 EbC50/96 h/Pseudokirchneriella subcapitata (green algae): 57 mg/l Method: OECD Test Guideline 201
Silicon dioxide, amorphous	: ErC50/72 h/Desmodesmus subspicatus (green algae): > 10,000 mg/l Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances. NOEC/72 h/Desmodesmus subspicatus (green algae): 10,000 mg/l Information given is based on data obtained from similar substances.
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
n-Butyl acetate	: ErC50/72 h/Desmodesmus subspicatus (green algae): 648 mg/l
Acute toxicity to aquatic invertebrates	
Methyl methacrylate	: EC50/48 h/Daphnia magna (Water flea): 69 mg/l Method: see user defined free text
Aluminium hydroxide	: EC50/48 h/Ceriodaphnia Dubia (water flea): 0.72 mg/l Information given is based on data obtained from similar substances.
Butyl methacrylate	: EC50/48 h/Daphnia magna (Water flea): 32 mg/l Method: OECD Test Guideline 202
n-Butyl acetate	: EC50/48 h/Daphnia magna (Water flea): 44 mg/l
Chronic toxicity to fish	
Methyl methacrylate	: NOEC/35 d/Danio rerio (zebra fish): 9.4 mg/l Method: OECD Test Guideline 210
Aluminium hydroxide	: NOEC/30 d/Fish (unspecified species): 0.057 mg/l Information given is based on data obtained from similar substances.
Chronic toxicity to aquatic Invertebrates	
Methyl methacrylate	: NOEC/21 d/Daphnia magna (Water flea): 37 mg/l Method: OECD Test Guideline 211
Aluminium hydroxide	: NOEC/21 d/Daphnia magna (Water flea): 1.89 mg/l Information given is based on data obtained from similar substances.
Butyl methacrylate	: NOEC/21 d/Daphnia magna (Water flea): 2.6 mg/l Method: OECD Test Guideline 211
2-(2H-Benzotriazol-2-yl)-p-cresol	: NOEC/21 d/Daphnia magna (Water flea): 0.013 mg/l Method: OECD Test Guideline 211
n-Butyl acetate	: NOEC/21 d/Daphnia magna (Water flea): 23 mg/l Method: OECD Test Guideline 211
Persistence and degradability	
Methyl methacrylate	: Result: rapidly biodegradable Readily biodegradable.
Propylidynetrimethyl trimethacrylate	: Exposure time: 28 d Biodegradation: 50 - 59 %

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Butyl methacrylate : Not readily biodegradable.
Exposure time: 28 d
Biodegradation: 88 %
Readily biodegradable.

Silicon dioxide, amorphous : Result: Not biodegradable.

2-(2H-Benzotriazol-2-yl)-p-cresol : Result: Not biodegradable.

n-Butyl acetate : Exposure time: 28 d
Biodegradation: 96 %
Readily biodegradable.

Bioaccumulation

Methyl methacrylate : Bioaccumulation is unlikely.

Butyl methacrylate : Bioconcentration factor (BCF): 31
Bioaccumulation is unlikely.

2-(2H-Benzotriazol-2-yl)-p-cresol : Method: OECD Test Guideline 305C
Bioaccumulation is unlikely.

n-Butyl acetate : Bioconcentration factor (BCF): 15.3
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 waste into sewer. Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADG

UN number : 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II
Hazchem Code : .3YE

IMDG

UN number : 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II
Marine pollutant : no

IATA

UN number : 1133
Proper shipping name : ADHESIVES
Class : 3
Packing group : II

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Matters needing attention : not applicable
for transportation

15. REGULATORY INFORMATION

SUSMP: Schedule 6

16. OTHER INFORMATION

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Date of first preparation : 22.09.2008
Revision Date : 06.08.2014
Version : 5.0

Before use read DuPont's safety information.

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

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