

MMA ADHESIVE 6MIN - PART B

Creation date	19. June 2012	Version	3.0
Revision date	12. April 2018		

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Substance / mixture MMA ADHESIVE 6MIN - PART B
Number WHITE: 1 35167; BLACK: 1 35168
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
mixture's intended use Glue.
Disapproved uses of mixture For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (ID) 25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

SECTION 2: Hazards identification**2.1. Substance or mixture classification****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 2, H225
Skin Corr. 1A, H314
Skin Sens. 1, H317
Eye Dam. 1, H318
STOT SE 3, H335
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

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

2.2. Label elements**Hazard pictogram****Signal word**

Danger

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Hazardous substances

methyl methacrylate
methacrylic acid
maleic acid
rosin; colophony

Hazard statements

H225 Highly flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235 Keep cool.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 IF IN EYES:
P310 Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P501 Dispose of contents/container to in accordance with national regulations.
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 607-035-00-6 CAS: 80-62-6 EC: 201-297-1 Registration number: 01-2119452498-28	methyl methacrylate	50-75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	1
Index: 607-088-00-5 CAS: 79-41-4 EC: 201-204-4 Registration number: 01-2119463884-26	methacrylic acid	5-10	Acute Tox. 4, H302+H332 Acute Tox. 3, H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Specific concentration limit: STOT SE 3, H335: C ≥ 1 %	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 607-095-00-3 CAS: 110-16-7 EC: 203-742-5 Registration number: 01-2119488705-25	maleic acid	1-3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335 Specific concentration limit: Skin Sens. 1, H317: C ≥ 0,1 %	
Index: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 Registration number: 01-2119480418-32	rosin; colophony	1-3	Skin Sens. 1, H317	
CAS: 128-37-0 EC: 204-881-4 Registration number: 01-2119565113-46	2,6-di-tert-butyl-p-cresol	0,3-1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

Notes

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In case of inadequate ventilation wear respiratory protection. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Rinse immediately contaminated clothing with plenty of water before removing clothes. Or wear gloves.

Inhalation

Remove person to fresh air and keep comfortable for breathing. In case of inadequate ventilation wear respiratory protection. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Provide medical treatment. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Rinse immediately contaminated clothing with plenty of water before removing clothes. Or wear gloves. Provide medical treatment. In the event of any complaints or symptoms, avoid further exposure. Wash contaminated clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

Ingestion

Rinse out the mouth with clean water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If the person vomits by himself, make sure that the vomit is not inhaled. Provide medical treatment. In the event of unconsciousness, do not provide food by mouth.

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4.2. Most important symptoms and effects, both acute and delayed**Inhalation**

May cause respiratory irritation. Adverse symptoms may include the following: Possible irritation of airways, cough.

Skin contact

Causes severe skin burns. May cause an allergic skin reaction. Adverse symptoms may include the following: Redness, irritation or blisters.

Eye contact

Not expected. Adverse symptoms may include the following: Painful reddening, irritation. Watering.

Ingestion

Not expected. Adverse symptoms may include the following: Stomach pain.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder. Water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Explosion risk in case of fire. Runoff to sewer may create fire or explosion hazard. Harmful to aquatic life with long lasting effects. Do not allow product to reach sewage system or any water course. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Evacuate area. No action shall be taken involving any personal risk or without suitable training. Closed containers with the product near the fire should be cooled with water. Move containers from fire area if safe to do.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate area. Keep unprotected persons away. Do not touch or walk through spilt material. Remove all ignition sources. Do not inhale aerosols. Do not inhale dust. Provide sufficient ventilation. In case of inadequate ventilation wear respiratory protection. Use personal protective equipment for work.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains. In the event of substantial pollution, contact respective authorities.

6.3. Methods and material for containment and cleaning up

Stop leak if safe to do so. Move containers from fire area if safe to do. Use non-sparking tools.

Small spill: Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of the collected material according to the instructions in the section 13.

Large spill: Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures: Use personal protective equipment as per Section 8. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not inhale gases and vapours. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Keep only in original container. Once the product is used, the package has to be tightly closed so that leakage of the mixture is prevented. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take precautionary measures against static discharge. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Do not eat, drink or smoke when using this product. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original container. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

The specific requirements or rules relating to the substance/mixture

Store in accordance with local regulations. Store away from other materials. Do not store together with food, drink and animal feed. Store locked up. Keep away from sources of heating, ignition and direct sunlight. Protect against strong oxidizing agents.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
methyl methacrylate (CAS: 80-62-6)	OEL	8 hours	- mg/m ³		EU limits
	OEL	8 hours	50 ppm		
	OEL	Short-term	100 ppm		

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
methyl methacrylate (CAS: 80-62-6)	WEL	8 hours	208 mg/m ³		GBR
	WEL	15 minutes	416 mg/m ³		
	WEL	8 hours	50 ppm		
	WEL	15 minutes	100 ppm		
methacrylic acid (CAS: 79-41-4)	WEL	8 hours	72 mg/m ³		GBR
	WEL	15 minutes	143 mg/m ³		

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United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
methacrylic acid (CAS: 79-41-4)	WEL	8 hours	20 ppm		GBR
	WEL	15 minutes	40 ppm		
rosin; colophony (CAS: 8050-09-7)	WEL	8 hours	0,05 mg/m ³	Capable of causing occupational asthma.	GBR
	WEL	15 minutes	0,15 mg/m ³	Capable of causing occupational asthma.	
2,6-di-tert-butyl-p-cresol (CAS: 128-37-0)	WEL	8 hours	10 mg/m ³		GBR

DNEL

2,6-di-tert-butyl-p-cresol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	3.5 mg/m ³	Systemic chronic effects	
Workers	Dermal	0.5 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	0.86 mg/m ³	Systemic chronic effects	
Consumers	Dermal	0.25 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.25 mg/kg bw/day	Systemic chronic effects	

maleic acid

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	3 mg/m ³	Systemic chronic effects	
Workers	Inhalation	3 mg/m ³	Systemic acute effects	
Workers	Inhalation	3 mg/m ³	Local chronic effects	
Workers	Inhalation	3 mg/m ³	Local acute effects	

methacrylic acid

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	29.6 mg/m ³	Systemic chronic effects	
Workers	Inhalation	88 mg/m ³	Local chronic effects	
Workers	Dermal	4.25 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	6.3 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	6.55 mg/m ³	Local chronic effects	
Consumers	Dermal	2.55 mg/kg bw/day	Systemic chronic effects	

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methyl methacrylate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	208 mg/m ³	Systemic chronic effects	
Workers	Inhalation	208 mg/m ³	Local chronic effects	
Workers	Dermal	13.67 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	1.5 mg/cm ²	Local chronic effects	
Workers	Dermal	1.5 mg/cm ²	Local acute effects	
Consumers	Inhalation	74.3 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	104 mg/m ³	Local chronic effects	
Consumers	Dermal	8.2 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	1.5 mg/cm ²	Local chronic effects	
Consumers	Dermal	1.5 mg/cm ²	Local acute effects	

rosin; colophony

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	10 mg/m ³	Local chronic effects	
Workers	Dermal	2.131 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	1.065 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	1.065 mg/kg bw/day	Systemic chronic effects	

PNEC

2,6-di-tert-butyl-p-cresol

Route of exposure	Value	Determining method
Freshwater environment	0.199 µg/l	
Water (occasional leak)	1.99 µg/l	
Seawater	0.02 µg/l	
Microorganisms in wastewater treatment plants	0.17 µg/l	
Freshwater sediment	0.0996 mg/kg of dry substance of sediment	
Sea sediments	0.00996 mg/kg of dry substance of sediment	
Soil (agricultural)	0.04769 mg/kg of dry substance of soil	
Food chain	8.33 mg/kg of food	

maleic acid

Route of exposure	Value	Determining method
Freshwater environment	0.1 mg/l	
Water (occasional leak)	0.428 mg/l	
Seawater	0.01 mg/l	
Microorganisms in wastewater treatment plants	44.6 mg/l	
Freshwater sediment	0.334 mg/kg of dry substance of sediment	

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maleic acid

Route of exposure	Value	Determining method
Sea sediments	0.033 mg/kg of dry substance of sediment	
Soil (agricultural)	0.042 mg/kg of dry substance of soil	

methacrylic acid

Route of exposure	Value	Determining method
Freshwater environment	0.82 mg/l	
Water (occasional leak)	0.82 mg/l	
Seawater	0.82 mg/l	
Microorganisms in wastewater treatment plants	10 mg/l	
Soil (agricultural)	1.2 mg/kg of dry substance of soil	

methyl methacrylate

Route of exposure	Value	Determining method
Freshwater environment	0.94 mg/l	
Water (occasional leak)	0.94 mg/l	
Seawater	0.94 mg/l	
Microorganisms in wastewater treatment plants	10 mg/l	
Freshwater sediment	5.74 mg/kg of dry substance of sediment	
Soil (agricultural)	1.47 mg/kg of dry substance of soil	

rosin; colophony

Route of exposure	Value	Determining method
Freshwater environment	0.002 mg/l	
Water (occasional leak)	0.016 mg/l	
Seawater	0 mg/l	
Microorganisms in wastewater treatment plants	1000 mg/l	
Freshwater sediment	0.007 mg/kg of dry substance of sediment	
Sea sediments	0.001 mg/kg of dry substance of sediment	
Soil (agricultural)	0 mg/kg of dry substance of soil	

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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Take off contaminated clothing. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. And wash it before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Wear approved chemical safety goggles where eye exposure is reasonably probable. Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Other protection: protective workwear. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use of antistatic clothes and footwear is recommended.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Thermal hazard

Not available.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

More information

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689, EN 14042, EN 482. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	
Physical state	liquid at 20°C
color	black / white
Odour	strong acrylic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	Highly flammable liquid and vapour.
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available

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Vapour density	data not available
Relative density	1.00 - 1.03
Solubility(ies)	
solubility in water	data not available
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Kinematic viscosity	>40 mm ² /s at 40°C
Explosive properties	data not available
Oxidising properties	data not available
data not available	

9.2. Other information

Density	data not available
ignition temperature	-18 - 23 °C
content of organic solvents (VOC)	25 %

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

When used in the standard way, there is not any dangerous reaction with other substances.

10.4. Conditions to avoid

Keep away from sources of heating, ignition and direct sunlight.

10.5. Incompatible materials

Protect against strong oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

2,6-di-tert-butyl-p-cresol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	890 mg/kg		Rat	

maleic acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
	LD ₅₀	708 mg/kg		Rat	

methacrylic acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Dermal	LD ₅₀	500 mg/kg		Rabbit	

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methacrylic acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	1060 mg/kg		Rat	
Inhalation (gases)	NOAEL	300 ppm	90 day	Rat	
Inhalation (gases)	NOAEL	100 ppm	90 day	Rat	

methyl methacrylate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation (vapor)	LD ₅₀	78000 mg/m ³	4 hour	Rat	
Dermal	LD ₅₀	>5000 mg/kg		Rabbit	
Oral	LD ₅₀	7872 mg/kg		Rat	

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Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	ATE	11285.1 mg/kg			
Dermal	ATE	6207.6 mg/kg			
Inhalation (gases)	ATE	24582.1 ppm			
Inhalation (dust/mist)	ATE	20.95 mg/l			

rosin; colophony

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	7600 mg/kg		Rat	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

2,6-di-tert-butyl-p-cresol

Route of exposure	Result	Time of exposure	Species	Source
	Slightly irritating	48 hour	Human	(500 mg)
	Slightly irritating	48 hour	Rabbit	(500 mg)

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

2,6-di-tert-butyl-p-cresol

Route of exposure	Result	Time of exposure	Species	Source
	Slightly irritating	24 hour	Rabbit	(100 mg)

maleic acid

Route of exposure	Result	Time of exposure	Species	Source
	Highly irritating	2 min	Rabbit	(1 %)

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

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Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

maleic acid

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Irritating			Respiratory tract - category 3

methacrylic acid

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Irritating			Respiratory tract irritation - category 3

methyl methacrylate

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Irritating			Dýchací cesty

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

2,6-di-tert-butyl-p-cresol

Parameter	Value	Time of exposure	Species	Environment
EC ₅₀	1440 µg/l	48 hour	Invertebrates (Daphnia pulex - Neonate)	Freshwater

maleic acid

Parameter	Value	Time of exposure	Species	Environment
EC ₅₀	160 mg/l	48 hour	Invertebrates (Daphnia magna)	
LC ₅₀	106 mg/l	96 hour	Fishes	

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methacrylic acid

Parameter	Value	Time of exposure	Species	Environment
EC ₅₀	45 mg/l	96 hour	Algae (Selenastrum capricornutum)	
EC ₅₀	>130 mg/l	48 hour	Invertebrates (Daphnia magna)	
LC ₅₀	85 mg/l	96 hour	Fishes	
NOEC	53 mg/l	21 day	Invertebrates (Daphnia magna)	Freshwater

methyl methacrylate

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	130000 µg/l	96 hour	Fishes (Pimephales promelas)	Freshwater

rosin; colophony

Parameter	Value	Time of exposure	Species	Environment
EC ₅₀	911 mg/l	48 hour	Invertebrates (Daphnia magna)	
LC ₅₀	>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	

12.2. Persistence and degradability

Biodegradability

methacrylic acid

Parameter	Value	Time of exposure	Environment	Result
	86 %	28 day		Easily biodegradable

rosin; colophony

Parameter	Value	Time of exposure	Environment	Result
	64 %	28 day		Easily biodegradable

Data not available.

12.3. Bioaccumulative potential

2,6-di-tert-butyl-p-cresol

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	5.1					high
BCF	330-1800					high

maleic acid

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	-1.38					low

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methacrylic acid

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	0.93					low

methyl methacrylate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	1.38					

rosin; colophony

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	1.9-7.7					low
BCF	56.3					low

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1. UN number

UN 1133

14.2. UN proper shipping name

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14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

Additional information

Hazard identification No.

33

(Kemler Code)

UN number

1133

Classification code

F1

Safety signs

3

**Road transport ADR**

Special provision

640C

Vehicles for tank carriage

FL

Tunnel restriction code

(D/E)

Railway transport - RID

Special provision

640C

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H225

Highly flammable liquid and vapour.

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H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H302+H332	Harmful if swallowed or if inhaled.

Guidelines for safe handling used in the safety data sheet

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P273	Avoid release to the environment.
P304+P340+P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305	IF IN EYES:
P310	Immediately call a POISON CENTER/doctor.
P235	Keep cool.
P501	Dispose of contents/container to in accordance with national regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry

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LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

2, 3, 8, 9, 11, 12, 15, 16

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.