

SAFETY DATA SHEET
according to 830/2015/EC, 28.05.2015



Date: 11-12-2013
Update: 15-01-2017

METACRYL ADHESIVE

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name **Metacryl Adhesive – Component A**
Article number X-468

1.2. Relevant identified uses of the substance or mixture and uses advised against

identified uses Bonding hard, soft, thermoplastics (PVC, ABS), epoxides, composites, stainless steel, as well as other metals and their alloys.
uses advised against -

1.3. Details of the supplier of the safety data sheet

Manufacturer NALMAT-Trzebinia
Marian Krzyworzeka
ul. Kościuszki 88
32-540 Trzebinia
tel. +48 32 612 10 10
fax. +48 32 612 10 66
www.technicqll.pl office@technicqll.pl
jakosc@technicqll.pl

1.4. Emergency telephone number:

+ 48 (032) 711 53 27 during normal office hours - Monday - Friday 6.00am - 2.00pm
112

2. Hazards identification

2.1. Classification of the substance or mixture

Human health hazards: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
May cause respiratory irritation.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Physical and chemical hazards: Highly flammable liquid and vapour.

2.2. Label elements

Contain: Methacrylate acid (EC: 201-204-4).
EUH 208 - Contains Methyl methacrylate (EC:201-297-1) and 2 hydroxyetyl methacrylate (EC: 212-782-2). May produce an allergic reaction.



DANGER

H225 – Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H412 – Harmful to aquatic life with long lasting effects.

P102 – Keep out of reach of children.

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P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P271 – Use only outdoors or in a well-ventilated area.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P405 – Store locked up.
P501– Dispose of contents/container to a mine waste dump.

2.3. Other hazards

PBT - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.
vPvB - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.

3. Composition/information on ingredients

3.1. Substance: -

3.2. Mixtures: Mixture of below listed ingredients with non-hazardous additions.

Description	CAS	EC	Reach No	Content %	Classification
Methyl methacrylate	80-62-6	201-297-1	01-2119452498-28-0000	30 – 50	Flam. Liq. 2, H225, STOT SE. 3, H335, Skin Irrit. 2, H315, Skin Sens. 1, H317
Metakrylan 2-fenoksyetylu	1059-06-9	234-201-1	-	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Metakrylan tetrahydro -furfurylowy	2455-24-5	219-529-5	-	1-10	Eye Irrit. 2, H319, STOT SE. 3, H335, Skin Irrit. 2, H315
2-Hydroxyethyl methacrylate	868-77-9	212-782-2	01-2119490169-29-0000	1-10	Eye Irrit. 2, H319, Skin Irrit. 2, H315, Skin Sens. 1, H317
Methacrylic acid	79-41-4	201-204-4	01-2119463884-26-0000	< 5	Skin Corr. 1A, H314, Acute Tox. 4, H312, Acute Tox. 4, H302 (For: c≥ 1%:STOT SE3, H335
Hydronadtlenek Kumenu	80-15-9	201-254-7	01-2119475796-19-0000	0,1 < 1	Org. Perox. E H242, Acute Tox. 3, H331, Acute Tox. 4, H312, Acute Tox. 4, H302, Skin Corr. 1B, H314, STOT RE. 2, H373, Aquatic Chronic 2, H411
2,6-di-tert-butyl-p-krezol	128-37-0	204-881-4	01-2119555270-46-0000	0,1 < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H41

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4. First aid measures

4.1 Description of first aid measures

After eye contact	In case of contact with eyes, immediately rinse them with plenty of water for at least 15 min. Lift eyelids and thoroughly flush the space under them. If irritation persists, contact a doctor.
After skin contact	Before washing with water and soap remove the substance with a dry cloth or paper towel. If irritation persists, contact a doctor.
After inhalation	Remove victim from the exposed place. Ensure fresh air. In case of difficulty in breathing, contact with a doctor. In case of loss consciousness, place and transport the victim in side position.
After swallowing	Rinse mouth several times with water. Consult a physician and show this MSDS.

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

Not available.

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

Decision on the method of further procedure should be made by a doctor after exact assessment of victim's conditions.

5. Firefighting measures

5.1. Extinguishing media

All available media: CO₂, extinguishing powder.

Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Inflammable product.

5.3. Advice for firefighters

Protective equipment: put on a protective device of inhalation system (a breathing apparatus with compressed air)

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For persons not belonging to the staff removing the results of accident: Reduce access of outsiders to the accident area until cleaning operation is finished. Avoid pollution of eyes and skin. Ensure good ventilation.

For people removing the failure effects: take care that the failure and its effects are to be removed only by trained staff.

6.2. Environmental precautions:

Do not allow the product to reach sewage system, surface and ground water. In case of contamination of ground water inform the suitable authorities.

6.3. Methods and material for containment and cleaning up:

Small quantities of the spilled product should be covered with an incombustible absorptive material e.g. sand, diatomite, take up and collect in a suitable labelled container. Warning: absorbents soaked with the preparation also form a fire hazard. In case of large spillage a place of the product accumulation should be embanked.

6.4. Reference to other sections

Information concerning safe handling – section / chapter 7.

Information concerning personal protective equipment - section / chapter 8.

Information concerning utilisation - section / chapter 13.

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7. Handling and storage

7.1. Precautions for safe handling:

Work in compliance with the applicable industrial safety and hygiene rules. Work in well ventilated rooms. Avoid contacts with skin and eyes, do not swallow. Unused packages should be tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed containers, preferably at a temperature: +7°C. Keep away from direct action of sun rays and other sources of heat. You must not freeze. Do not store near strong acids and oxidants.

7.3. Specific end use(s)

Not available.

8. Exposure controls/personal protection

The personal protection media should meet the requirements of Directive of 89/686/EC (together with later changes) The employer is obliged to ensure measures of personal protection suitable to activities that are made and fulfilling all quality requirements as well as their cleaning and maintenance.

8.1. Control parameters

Ingredients with limit values that require monitoring at the work place.

Exposure control	NDS [mg/m ³]	NDSCH [mg/m ³]
Methyl methacrylate	100	300

8.2. Exposure controls

Observe the general principles of safety and hygiene. Ensure the general ventilation of rooms. During work do not eat, drink and smoke. Before break and after finishing work wash thoroughly hands. Avoid eye contact.

Breathing equipment:

Avoid breathing vapours. In case of short contacts with the mixture use a filtering device for breathing. In case of prolonged and intensive contacts, use a breathing mask with a vapour absorber completed with a filter [a breathing mask with a vapour absorber completed with a filter P-2-B]

Protection of hands and body:

The material that is designed for gloves has to be impermeable and resistant to action of the preparation (e.g. from rubber or PVA). This material must be checked before use. It is recommended to regularly change gloves and immediate their replacement if there are any signs of their, damage or change in appearance (colour, elasticity, shape etc.).

Eye protection:

Protective glasses tightly closed.

Environment exposure control

Do not allow a lot of products to reach ground water sewage system and soil.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Psychical state	Liquid
Colour	Colourless/milky
Odour	Characteristic
Odour threshold	Not determined

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pH value	Not determined
Melting/freezing point	Not determined
Boiling point	100,5°C
Evaporation rate	Not determined
Self-ignition	421°C
Upper explosion limit	-
Lower explosion limit	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Density at 20°C	0,97 – 1,0 g/cm ³
Solubility in water	Not or difficult to mix
Partition coefficient n-octanol/water	Not determined
Decomposition point	Not determined
Explosion properties	-
Oxidizing properties	Not determined
Kinetic viscosity	Not determined

9.2. Other information

Temperature resistance: -40°C - +80°C

10. Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

No dangerous products of decomposition, when stored and handled correctly.

10.3. Possibility of hazardous reactions

Reactions with oxidizing agents: reacts with strong acids.

10.4. Conditions to avoid

Avoid open fire, higher temperatures and hot surfaces.

10.5. Incompatible materials

Not available.

10.6. Hazardous decomposition products

Toxic vapours and fumes.

11. Toxicological information

11.1. Information on toxicological effects

In contact with skin	Irritating to skin. May cause an allergic skin reaction. May produce an allergic reaction.
In contact with eyes	Irritating to eyes.
After swallow	Irritating to the mucous membrane of the mouth, throat and gastrointestinal further.
Sensitization	May cause an allergic skin reaction.

2,6-di-tert-butylo-p-krezol

LD50 (rat, oral) - > 5000 mg/kg

LD50 (rabbit, dermal) - > 5000 mg/kg

NOEL (rat, oral) – 25 mg/kg/28d

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Hydonadtlenek Cumenu

LD50 (rat, oral) - 382 mg/kg
LC50 (rat, inhalation) – 220 ppm / 4h

Methyl methacrylate

LD50 (rat, oral) - > 5000 mg/kg
LD50 (rabbit, dermal) - > 5000 mg/kg

Methacrylic acid

LD50 (rat, oral) - 1320 - 2260 mg/kg
LD50 (rabbit, dermal) - 500 mg/kg

12. Ecological information

12.1. Toxicity

2,6-di-tert-butylo-p-krezol

LC50 (96h) - (Danio rerio) – >0,57 mg/l
EC50 (24h) – Daphnia magna - >0,17 mg/l
IC50 (72h) – Desmodesmus subspicatus - >0,42 mg/l
NOEC (21 dni) - Daphnia magna – 0,39 mg/l

Hydonadtlenek Cumenu

EC50 (24h) – Daphnia magna 7 mg/l
LC50 (96h) – Oncorhynchus mykiss: 3,9 mg/l

Methyl methacrylate

Acute toxicity to fish – LC50 (Oncorhynchus mykiss) - >79 mg/l/96h – OECD 203.
Acute toxicity to Daphnia – EC50 (Daphnia magna) – 69 mg/l/48h – OECD 202.
Acute toxicity to Algae – LC50 (Selenastrum capricornutum) – 37 mg/l/96h – OECD 201.

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

Does not possess potential to bioaccumulation.

12.4. Mobility in soil

Easily absorbed in soil.

12.5. Results of PBT and vPvB assessment

PBT Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.
vPvB Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

12.6. Other adverse effects

Not available.

13. Disposal considerations

13.1. Waste treatment methods

Do not allow to reach to sewage system. Stored in original packages. Utilize in accordance with suitable regulations.

Waste code:

08 04 09 Waste adhesives and sealants containing organic solvents and other dangerous substations.
15 01 10 Packaging containing residues dangerous substations or contaminated with them.

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EU Legal Instruments

Directives of European Parliament and Council 2006.12-ECI Council

14. Transport information

14.1. UN-Number: -1133

Land transport ADR/RID and GGVSEB
(international/state)

Class ADR/RID – GGVSEB: 3
LQ=5L

Sea transport IMDG/VSee:

Class IMDG/VSee: 3

Air transport ICAO – T I IATA – DGR:

Class ICAO/IATA: 3

14.2. Proper shipping name

ADHESIVES

14.3. Transport hazard class (es)

3

14.4. Packing group

II

14.5. Hazards to environment

Harmful to aquatic life with long lasting effects.

14.6. Special precautions for user

During handling with load use personal protection according to point 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. Regulatory information

15.1. Legislation related to safety, health and environment protection specific for substance or mixture:

The regulation of European Parliament and Council (EC) no. 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH), for establishing the European Chemical Agency, changing the directive 1999/45/EC and cancelling the regulation of EEC) no.793/93 and the regulation of Committee(EC) no.1488/94, as well as the directive of council 76/769/EEC and the directives of Committee 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC,

The regulation of European Parliament and Council (EC) no.1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures, changing and cancelling the directives 67/548/EEC and 1999/45/EC and changing the regulation (EC) no.1907/2006

The regulation of Committee (EC) no.790/2009 of 10 August 2009 adopting to the scientific and technological progress the regulation of European Parliament and Council (EC) no 1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures

The regulation 453/2010/EU Council of 10.05.2010 changing the regulation no. 1907/2006/EU of European Parliament and Council concerning the registration, estimation, granting permissions and suitable limits in the range of chemicals (REACH)

The directive of European Parliament and Council no.2006/12/EC of 5 April 2006 concerning waste.

The directive of Council no. 91/689/EEC of 12 December 1991 concerning dangerous waste.

The directive of European Parliament and Council no 94/62/EU. of 20 December 1994 concerning packaging and packaging waste.

15.2. Estimation of chemical safety: No date

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16. Other information

Explanation of symbols in the 3 point of Safety Data Sheet:

- H314 – Causes severe skin burns and eye damage.
- H312 – Harmful in contact with skin.
- H302 – Harmful if swallowed.
- H242 – Heating may cause a fire.
- H331 – Toxic if inhaled.
- H373 – May cause damage to organs through prolonged or repeated exposure
- H411 – Toxic to aquatic life with long lasting effects.
- H400 - Very toxic to aquatic life.

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.

1. Identification of the substance/mixture and of the company/undertaking

1.4. Product identifier

Trade name	Metacryl Adhesive – Component B
Article number	X-468

1.5. Relevant identified uses of the substance or mixture and uses advised against

identified uses	Bonding hard, soft, thermoplastics (PVC, ABS), epoxides, composites, stainless steel, as well as other metals and their alloys.
uses advised against	-

1.6. Details of the supplier of the safety data sheet

Manufacturer	NALMAT-Trzebinia Marian Krzyworzeka ul. Kościuszki 88 32-540 Trzebinia tel. +48 32 612 10 10 fax. +48 32 612 10 66 www.technicqll.pl office@technicqll.pl jakosc@technicqll.pl
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1.4. Emergency telephone number:

+ 48 (032) 711 53 27 during normal office hours - Monday - Friday 6.00am - 2.00pm
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2. Hazards identification

2.4. Classification of the substance or mixture

Human health hazards:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.
Environmental hazards:	Harmful to aquatic life with long lasting effects.

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Physical and chemical hazards: Highly flammable liquid and vapour.

2.5. Label elements

Contain: Metakrylan benzylu (CAS: 2495-37-6) i Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1]hept-2-ylu (CAS: 7534-94-3)
EUH 208 - Contains Methyl methacrylate (EC:201-297-1). May produce an allergic reaction.



DANGER

H225 – Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H412 – Harmful to aquatic life with long lasting effects.

P102 – Keep out of reach of children.
P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P271 - Use only outdoors or in a well-ventilated area.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P405 – Store locked up.
P501– Dispose of contents/container to a mine waste dump.

2.6. Other hazards

PBT - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.
vPvB - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.

3. Composition/information on ingredients

3.1. Substance: -

3.2. Mixtures: Mixture of below listed ingredients with non-hazardous additions.

Description	CAS	EC	Reach No	Content %	Classification
Methyl methacrylate	80-62-6	201-297-1	01-2119452498-28-0000	1-10	Flam. Liq. 2, H225, STOT SE. 3, H335, Skin Irrit. 2, H315, Skin Sens. 1, H317
Metakrylan Benzylu	2495-37-6	219-674-4	01-2119960155-39-0000	50-70	Eye Irrit. 2, H319, STOT SE. 3, H335, Skin Irrit. 2, H315, Skin Sens. 1, H317
Metakrylan ekso-1,7,7-trimetylobicyklo[2.2.1]hapt-2-ylu	7534-94-3	231-403-1	01-2119886505-27-0000	10-30	Eye Irrit. 2, H319, STOT SE. 3, H335, Skin Irrit. 2, H315, Aquatic Chronic 3, H412
2,6-di-tert-butylo-p-krezol	128-37-0	204-881-4	01-2119555270-46-XXXX	0,1 < 1	Aquatic Acute 1, H400, Aquatic Chronic 1, H410

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	Trimethylenediamine	109-76-2	203-702-7	01-2119977065-31-0000	0,1 < 1	Flam. Liq. 3, H226, Acute Tox. 4, H302. Skin Corr. 1 B, H314, Acute Tox. 2, H310, Skin Sens. 1B, H317, Eye Dam. 1, H318, Resp. Sens. 1, H334
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4. First aid measures

4.2 Description of first aid measures

After eye contact	In case of contact with eyes, immediately rinse them with plenty of water for at least 15 min. Lift eyelids and thoroughly flush the space under them. If irritation persists, contact a doctor.
After skin contact	Before washing with water and soap remove the substance with a dry cloth or paper towel. If irritation persists, contact a doctor.
After inhalation	Remove victim from the exposed place. Ensure fresh air. In case of difficulty in breathing, contact with a doctor. In case of loss consciousness, place and transport the victim in side position.
After swallowing	Rinse mouth several times with water. Consult a physician and show this MSDS.

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

Not available.

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

Decision on the method of further procedure should be made by a doctor after exact assessment of victim's conditions.

5. Firefighting measures

5.4. Extinguishing media

All available media: CO₂, extinguishing powder.

Unsuitable extinguishing media: High volume water jet.

5.5. Special hazards arising from the substance or mixture

Inflammable product.

5.6. Advice for firefighters

Protective equipment: put on a protective device of inhalation system (a breathing apparatus with compressed air)

6. Accidental release measures

6.5. Personal precautions, protective equipment and emergency procedures

For persons not belonging to the staff removing the results of accident: Reduce access of outsiders to the accident area until cleaning operation is finished. Avoid pollution of eyes and skin. Ensure good ventilation.

For people removing the failure effects: take care that the failure and its effects are to be removed only by trained staff.

6.6. Environmental precautions:

Do not allow the product to reach sewage system, surface and ground water. In case of contamination of ground water inform the suitable authorities.

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6.7. Methods and material for containment and cleaning up:

Small quantities of the spilled product should be covered with an incombustible absorptive material e.g. sand, diatomite, take up and collect in a suitable labelled container. Warning: absorbents soaked with the preparation also form a fire hazard. In case of large spillage a place of the product accumulation should be embanked.

6.8. Reference to other sections

Information concerning safe handling – section / chapter 7.
Information concerning personal protective equipment - section / chapter 8.
Information concerning utilisation - section / chapter 13.

7. Handling and storage

7.4. Precautions for safe handling:

Work in compliance with the applicable industrial safety and hygiene rules. Work in well ventilated rooms. Avoid contacts with skin and eyes, do not swallow. Unused packages should be tightly closed.

7.5. Conditions for safe storage, including any incompatibilities

Store in original tightly closed containers, preferably at a temperature: +7°C. Keep away from direct action of sun rays and other sources of heat. You must not freeze. Do not store near strong acids and oxidants.

7.6. Specific end use(s)

Not available.

8. Exposure controls/personal protection

The personal protection media should meet the requirements of Directive of 89/686/EC (together with later changes) The employer is obliged to ensure measures of personal protection suitable to activities that are made and fulfilling all quality requirements as well as their cleaning and maintenance.

8.3. Control parameters

Ingredients with limit values that require monitoring at the work place.

Exposure control	NDS [mg/m ³]	NDSCH [mg/m ³]
Methyl methacrylate	100	300

8.4. Exposure controls

Observe the general principles of safety and hygiene. Ensure the general ventilation of rooms. During work do not eat, drink and smoke. Before break and after finishing work wash thoroughly hands. Avoid eye contact.

Breathing equipment:

Avoid breathing vapours. In case of short contacts with the mixture use a filtering device for breathing. In case of prolonged and intensive contacts, use a breathing mask with a vapour absorber completed with a filter [a breathing mask with a vapour absorber completed with a filter P-2-B]

Protection of hands and body:

The material that is designed for gloves has to be impermeable and resistant to action of the preparation (e.g. from rubber or PVA). This material must be checked before use. It is recommended to regularly change gloves and immediate their replacement if there are any signs of their, damage or change in appearance (colour, elasticity, shape etc.).

Eye protection:

Protective glasses tightly closed.

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Environment exposure control

Do not allow a lot of products to reach ground water sewage system and soil.

9. Physical and chemical properties

9.3. Information on basic physical and chemical properties

Psychical state	Liquid
Colour	Colourless/milky
Odour	Characteristic
Odour threshold	Not determined
pH value	Not determined
Melting/freezing point	Not determined
Boiling point	100,5°C
Evaporation rate	Not determined
Ignition temperature	< 21°C
Upper explosion limit	-
Lower explosion limit	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Density at 20°C	0,97 – 1,0 g/cm ³
Solubility in water	Not or difficult to mix
Partition coefficient n-octanol/water	Not determined
Decomposition point	Not determined
Explosion properties	-
Oxidizing properties	Not determined
Kinetic viscosity	Not determined

9.4. Other information

Temperature resistance: -40°C - +80°C

10. Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

No dangerous products of decomposition, when stored and handled correctly.

10.3. Possibility of hazardous reactions

Reactions with oxidizing agents: reacts with strong acids.

10.4. Conditions to avoid

Avoid open fire, higher temperatures and hot surfaces.

10.5. Incompatible materials

Not available.

10.6. Hazardous decomposition products

Toxic vapours and fumes.

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11. Toxicological information

11.1. Information on toxicological effects

In contact with skin	Irritating to skin. May cause an allergic skin reaction. May produce an allergic reaction.
In contact with eyes	Irritating to eyes.
After swallow	Irritating to the mucous membrane of the mouth, throat and gastrointestinal further.
Sensitization	May cause an allergic skin reaction.

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

LD50 (rat, oral) - > 5000 mg/kg
LD50 (rabbit, dermal) - > 5000 mg/kg
NOEL (rat, oral) - 25 mg/kg/28d

Methyl methacrylate

LD50 (rat, oral) - > 5000 mg/kg
LD50 (rabbit, dermal) - > 5000 mg/kg

12. Ecological information

12.1. Toxicity

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

LC50 (96h) - (Danio rerio) - >0,57 mg/l
EC50 (24h) - Daphnia magna - >0,17 mg/l
IC50 (72h) - Desmodesmus subspicatus - >0,42 mg/l
NOEC (21 dni) - Daphnia magna - 0,39 mg/l

Methyl methacrylate

Acute toxicity to fish - LC50 (Oncorhynchus mykiss) - >79 mg/l/96h - OECD 203.
Acute toxicity to Daphnia - EC50 (Daphnia magna) - 69 mg/l/48h - OECD 202.
Acute toxicity to Algae - LC50 (Selenastrum capricornutum) - 37 mg/l/96h - OECD 201.

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

Does not possess potential to bioaccumulation.

12.4. Mobility in soil

Easily absorbed in soil.

12.5. Results of PBT and vPvB assessment

PBT	Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.
vPvB	Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

12.6. Other adverse effects

Not available.

13. Disposal considerations

13.1. Waste treatment methods

Do not allow to reach to sewage system. Stored in original packages. Utilize in accordance with suitable regulations.

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METACRYL ADHESIVE

Waste code:

08 04 09 Waste adhesives and sealants containing organic solvents and other dangerous substations.
15 01 10 Packaging containing residues dangerous substations or contaminated with them.

EU Legal Instruments

Directives of European Parliament and Council 2006.12-ECI Council

14. Transport information

14.1. UN-Number: -1133

**Land transport ADR/RID and GGVSEB
(international/state)**

Class ADR/RID – GGVSEB: 3
LQ=5L

Sea transport IMDG/VSee:

Class IMDG/VSee: 3

Air transport ICAO – TI IATA – DGR:

Class ICAO/IATA: 3

14.2. Proper shipping name
ADHESIVES

14.3. Transport hazard class (es)
3

14.4. Packing group
II

14.5. Hazards to environment
Harmful to aquatic life with long lasting effects.

14.6. Special precautions for user
During handling with load use personal protection according to point 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. Regulatory information

15.1. Legislation related to safety, health and environment protection specific for substance or mixture:

The regulation of European Parliament and Council (EC) no. 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH), for establishing the European Chemical Agency, changing the directive 1999/45/EC and cancelling the regulation of EEC no.793/93 and the regulation of Committee(EC) no.1488/94, as well as the directive of council 76/769/EEC and the directives of Committee 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC,
The regulation of European Parliament and Council (EC) no.1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures, changing and cancelling the directives 67/548/EEC and 1999/45/EC and changing the regulation (EC) no.1907/2006
The regulation of Committee (EC) no.790/2009 of 10 August 2009 adopting to the scientific and technological progress the regulation of European Parliament and Council (EC) no 1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures
The regulation 453/2010/EU Council of 10.05.2010 changing the regulation no. 1907/2006/EU of European Parliament and Council concerning the registration, estimation, granting permissions and suitable limits in the range of chemicals (REACH)
The directive of European Parliament and Council no.2006/12/EC of 5 April 2006 concerning waste.

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The directive of Council no. 91/689/EEC of 12 December 1991 concerning dangerous waste.
The directive of European Parliament and Council no 94/62/EU. of 20 December 1994 concerning packaging and packaging waste.

15.2. Estimation of chemical safety:

No data.

16. Other information

Explanation of symbols in the 3 point of Safety Data Sheet:

H226 – Flammable liquid and vapour.

H310 - Fatal in contact with skin.

H314 – Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H302 – Harmful if swallowed.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H410 – Very toxic to aquatic life with long lasting effects.

H400 - Very toxic to aquatic life.

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.

MSDS developed by NALMAT Trzebinia