

Version number 302

Revision: 20.04.2015

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

· 1.1 Product identifier

• Trade name: <u>2-component methyl acrylate adhesive</u>

· Article number: 4317784464963/1, 4317784464970/1

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

· Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) • Application of the substance / the mixture Activator

- $\cdot$  1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

E/D/E - Einkaufsbuero Deutscher Eisenhaendler GmbH EDE Platz 1 D-42389 Wuppertal Germany

Tel. +49 202 6096-0 e-mail: sdb@ede.de

· Further information obtainable from: Product safety department

· 1.4 Emergency telephone number: Giftinformationszentrum Mainz – Tel.: +49 (6131) 19240

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS05 corrosion

Skin Corr. 1A	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.

GHS07

Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.

• Hazard pictograms



· Signal word Danger

• *Hazard-determining components of labelling: methyl methacrylate* 



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methacrylic aci	d
tosyl chloride	
•	nethylolpropane triacrylate
Hazard stateme	
	ammable liquid and vapour.
	evere skin burns and eye damage.
	e an allergic skin reaction.
H335 May caus	e respiratory irritation.
	to aquatic life with long lasting effects.
Precautionary s	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P303+P361+P.	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, ij present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P301+P330+P.	331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazar	rds
<b>Results of PBT</b>	and vPvB assessment
PBT: Not appli	
vPvB: Not appl	

# SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

CAS: 80-62-6	methyl methacrylate	50-100%
EINECS: 201-297-1	♦ Flam. Liq. 2, H225; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	-
	Urethanmethacrylat-Oligomer	2.5-10%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 79-41-4	methacrylic acid	2.5-10%
EINECS: 201-204-4	Skin Corr. 1A, H314; () Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 98-59-9	tosyl chloride	2.5-10%
EINECS: 202-684-8	🔗 Skin Corr. 1B, H314	-
CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	<2.5%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🚸 Acute Tox. 4, H302	
CAS: 80-15-9	α,α -dimethylbenzyl hydroperoxide	<2.5%
EINECS: 201-254-7	Org. Perox. EF, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312	-
CAS: 28961-43-5	Ethoxylated trimethylolpropane triacrylate	< 1%
NLP: 500-066-5	🚯 Eye Irrit. 2, H319; Skin Sens. 1, H317	



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• Additional information: For the wording of the listed risk phrases refer to section 16.

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### **SECTION 4:** First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air.
- Seek medical treatment in case of complaints.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- Seek medical treatment.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
6.4 Reference to other sections

- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

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· Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.

Store only in the original receptacle.

Provide floor trough without outlet.

- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

### · Ingredients with limit values that require monitoring at the workplace:

- 141-78-6 ethyl acetate
- WEL Short-term value: 400 ppm

Long-term value: 200 ppm

67-64-1 acetone

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation filter A2 • **Protection of hands:**

Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

• *Material of gloves* Butyl rubber, BR Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

- Penetration time of glove material The exact break through time has to be found out by the man
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- $\cdot$  Eye protection: Recommendation: safety glasses with side protection shield

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· Body protection: Protective work clothing

SECTION 9: Physical and ch	nemical properties
· 9.1 Information on basic physical a	and chemical properties
· General Information	
· Appearance:	
Form:	Highly viscous
Colour:	Whitish
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 35 °C
· Flash point:	11 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	430 °C
• Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
· Explosion limits:	
Lower:	2.1 Vol %
Upper:	12.5 Vol %
· Vapour pressure at 20 °C:	47 hPa
· Density at 20 °C:	$0.97 \ g/cm^3$
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wat	ter): Not determined.
· Viscosity:	
Dynamic at 20 °C:	140000 mPas
Kinematic:	Not determined.
<i>VOC (EC) %</i>	36.00 %
VOCV (CH)	36.00 %
• 9.2 Other information	No further relevant information available.

# SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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## SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

### • Acute toxicity:

 $\cdot$  LD/LC50 values relevant for classification:

80-62-6 methy	l methacrylate	
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*Oral LD50* 7872 *mg/kg* (*rat*)

79-41-4 methacrylic acid

OralLD501332 mg/kg (mouse)DermalLD50500 mg/kg (rabbit)

128-37-0 2,6-di-tert-butyl-p-cresol

 Oral
 LD50
 890 mg/kg (rat)

80-15-9 a,a -dimethylbenzyl hydroperoxide

OralLD50382 mg/kg (rat)DermalLD50500 mg/kg (rat)

Inhalative LC50/4h 220 mg/l (rat)

### · Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye: Irritating effect.

• Sensitisation: Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

# SECTION 12: Ecological information

### · 12.1 Toxicity

- $\cdot$  Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB**: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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# SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

Containers can be recycled if completely empty; if not, dispose product/containers as dangerous waste. Observe local regulations.

#### · European waste catalogue

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

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

14.1 UN Normahan	
14.1 UN-Number ADR, IMDG, IATA	UN2924
14.2 UN proper shipping name	
ADR	UN1133 ADHESIVES
IMDG	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METH
	METHACRYLATE MONOMER, STABILIZE
1 A 77 A	METHACRYLIC ACID, STABILIZED)
ΙΑΤΑ	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
14.3 Transport hazard class(es)	
ADR	
	3 (EC) Elammable liquida
Class Label	3 (FC) Flammable liquids. 3+8
IMDG	
Class	3 Flammable liquids.
Label	3/8
IATA	
Class	3 Flammable liquids.
Label	3 (8)
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
	338
Danger code (Kemler): EMS Number:	<i>F-E,S-C</i>



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· Segregation groups	Acids
· 14.7 Transport in bulk according to Anne	x II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
$\cdot ADR$	
· Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
• • • • •	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
• Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
$\cdot Excepted$ quantities ( $\widetilde{E}Q$ )	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN1133, ADHESIVES, 3, II

### SECTION 15: Regulatory information

· National regulations:

· Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Relevant phrases

H225 Highly flammable liquid and vapour. H242 Heating may cause a fire. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. · Contact: sdb@ede.de · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweis (Swiss Ordinance on volatile organic compounds) (Contd. on page 9)

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Safety data sheet according to 1907/2006/EC, Article 31

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VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Flam. Liq. 2: Flammable liquids, Hazard Category 2	
Org. Perox. EF: Organic Peroxides, Types E, F	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Acute Tox. 3: Acute toxicity, Hazard Category 3	
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A	
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2	
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2	
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3	
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