

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

Printing date 12.04.2018

Version number 2

Revision: 02.01.2018

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

**- 1.1 Product identifier****- Trade name:** AT-2010 - Part A**- Article number:** R095059-00**- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.**- Application of the substance / the mixture** Adhesives**- 1.3 Details of the supplier of the safety data sheet****- Manufacturer/Supplier:**

Kömmerling Chemische Fabrik GmbH  
Zweibrücker Straße 200  
D-66954 Pirmasens  
Tel.: +49 (0)6331/56-2000  
www.koe-chemie.de

**- Informing department:**

Abteilung: C-U Qualitäts- und Umweltmanagementcenter  
(department: C-U Quality- and Environmentalmanagementcenter)  
Tel.: +49 (0)6331/56-2553; Fax.: +49 (0)6331/56-1091  
e-Mail: Productsafety@Koe-Chemie.de

**- 1.4 Emergency telephone number:**

In case of poisoning:  
GBK-EMTEL International  
Tel.(24h): +49(0)6132/84463 (all languages)

In case of transport accidents:

Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 / GBK)

### 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.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

**- Additional information:** The classification resulted from the calculation method of CLP-regulation.**- 2.2 Label elements****- Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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**- Hazard pictograms**


GHS02 GHS05 GHS07 GHS09

**- Signal word** Danger

**- Hazard-determining components of labelling:**

 methyl methacrylate  
 methacrylic acid

**- Hazard statements**

 H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.  
 H411 Toxic 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.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing mist/vapours/spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P403 Store in a well-ventilated place.

**- 2.3 Other hazards**

In the event of a large-scale use of the product, ignition sources in the immediate proximity and in low-lying areas, such as welding equipment, bells, heating elements, refrigerators, storage heaters etc. should be switched off! Erect warning signs warning of the hazardous risk of explosive atmosphere!

**- Results of PBT and vPvB assessment**

 - **PBT:** Not applicable.  
 - **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**- 3.2 Chemical characterisation: Mixtures**
**- Description:** Mixture of several substances

**- Dangerous components:**

CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-xxxx	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-75%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119555270-46-xxxx 01-2119565113-46-xxxx	Butylated hydroxytoluene Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<10%

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CAS: 79-41-4 EINECS: 201-204-4 Reg.nr.: 01-2119463884-26-xxxx	methacrylic acid Acute Tox. 3, H311; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335	<5%
CAS: 80-15-9 EINECS: 201-254-7	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide Org. Perox. E, 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	<1%

- **SVHC** Doesn't contain SVHC-substances.
- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### - 4.1 Description of first aid measures

##### - After inhalation

Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness bring patient into a stable side position for transport.

##### - After skin contact

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

##### - After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

##### - After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

#### - 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### - 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

Water spray  
Alcohol-resistant foam  
Fire-extinguishing powder  
Carbon dioxide

##### - For safety reasons unsuitable extinguishing agents

Water with full jet.

#### - 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

#### - 5.3 Advice for firefighters

##### - Protective equipment: Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

#### - 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation  
Keep away from ignition sources  
Use respiratory protective device against the effects of fumes/dust/aerosol.

#### - 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

#### - 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

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**- 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.
- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Fumes can combine with air to form an explosive mixture.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
  - Prevent any seepage into the ground.
  - Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
  - Protect from exposure to the light.
  - Protect from frost.
  - Keep receptacle tightly sealed.
  - Store receptacle in a well ventilated area.
  - Store in dry conditions.
  - Do not store at temperatures above 37 °C.
- **Storage class (according german VCI-concept):** 3
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

**- Components with limit values that require monitoring at the workplace:**
**80-62-6 methyl methacrylate**

WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
IOELV (European Union)	Short-term value: 100 ppm
	Long-term value: 50 ppm

**79-41-4 methacrylic acid**

WEL (Great Britain)	Short-term value: 143 mg/m <sup>3</sup> , 40 ppm
	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm

**- DNELs**
**80-62-6 methyl methacrylate**

Inhalative	worker (long-term exposure/systemic)	210 mg/m <sup>3</sup>
	worker (long-term exposure/local)	210 mg/m <sup>3</sup>

**- Additional information:**

The homogenous mixing of this product is safeguarded by continual physical testing. Raw materials which formerly had dust-like properties are completely incorporated into the liquid / paste-like mass. Subsequently, possible TLVs for solid substances are not given, as there is no more danger of inhaling these substances (when dealing with this mixture)!

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**- 8.2 Exposure controls****- Personal protective equipment****- General protective and hygienic measures**

The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of the work.

Immediately remove all soiled and contaminated clothing

**- Breathing equipment:**

Not required with good ventilation and/or adequate extractor facilities

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

A2 (DIN EN 14387 / DIN EN 141)

**- Protection of hands (DIN EN 420):**

Direct contact with the chemical preparation must be avoided by organizational measures. Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

Compliance with the stated penetration time (starts with the first product contact) must be ensured!

The gloves need to be disposed of after the penetration time and new gloves used!

**- For the permanent contact gloves made of the following materials are suitable:**

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the "Barrier 02-100" underglove from Ansell (penetration time 480 min).

**- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber (0.8 mm - penetration time 15 min)

**- As protection from splashes gloves made of the following materials are suitable:**

Recommended for protection from splashes: disposable nitrile gloves (minimum thickness 0.12 mm) with long cuffs. After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

**- Eye protection:** Safety glasses

## SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:**

<b>Form:</b>	Pasty
<b>Colour:</b>	Whitish
<b>- Odour:</b>	Characteristic
<b>- Odour threshold:</b>	Not determined.

**- Change in condition**

**Initial boiling point and boiling range:** >100 °C

**- Flash point:** 10 °C

**- Ignition temperature:** > 200 °C

**- Explosion limits:**

<b>Lower:</b>	2.1 Vol %
<b>Upper:</b>	12.5 Vol %

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- Vapour pressure at 20 °C:	47 hPa
- Specific gravity at 20 °C:	1.06 g/cm <sup>3</sup>
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with Water:	Not miscible or difficult to mix
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
- Solvent content:	
VOC (EU):	10.5 g/l
VOC (EU):	0.99 %
VOC (CH):	0.99 %
- 9.2 Other information	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **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 reducing agents  
Reacts with acids, alkalis and oxidizing agents  
Reacts with amines  
Reacts with oxidizing agents  
Photoreactive  
Reacts with peroxides and other radical forming substances  
Danger of polymerisation  
Exothermic polymerisation
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
None, if used according to instructions and stored according to regulations

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### - LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)		
Oral	LD50	8,607 mg/kg
Dermal	LD50	10,000 mg/kg
Inhalative	LC50/4 h	367 mg/l

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<b>128-37-0 Butylated hydroxytoluene</b>		
Oral	LD50	890 mg/kg (rat)
<b>79-41-4 methacrylic acid</b>		
Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	11 mg/l (ATE)
<b>80-15-9 <math>\alpha,\alpha</math>-dimethylbenzyl hydroperoxide</b>		
Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	0.5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-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**
- **Aquatic toxicity:**  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal in accordance with official regulations
- **EWC-Code(s):**

To be treated as industrial waste: do not dispose of in or on soil, in watercourses or bodies, or through a sewage system. These EU refuse code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other

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dangerous substances listed under item 3 of this safety datasheet is itself classified as dangerous (\*).

Waste accruing during application:

080409\* waste adhesives and sealants containing organic solvents or other dangerous substances

080410 waste adhesives and sealants other than those mentioned in 080409

Waste accruing during cleaning:

08 04 11\* adhesive and sealant sludges containing organic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than those mentioned in 080411

Soiled waste packaging:

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

Clean waste packaging:

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR/RID/ADN, IMDG, IATA**

UN1993

- **14.2 UN proper shipping name**

- **ADR/RID/ADN**

1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED), ENVIRONMENTALLY HAZARDOUS

- **IMDG**

FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED), MARINE POLLUTANT

- **IATA**

FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED)

- **14.3 Transport hazard class(es)**

- **ADR/RID/ADN, IMDG**



- **Class**

3 Flammable liquids.

- **Label**

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**- IATA**

**- Class** 3 Flammable liquids.  
**- Label** 3

**- 14.4 Packing group**  
**- ADR/RID/ADN, IMDG, IATA** II

**- 14.5 Environmental hazards:**  
**- Marine pollutant:** Symbol (fish and tree)  
**- Special marking (ADR/RID/ADN):** Symbol (fish and tree)

**- 14.6 Special precautions for user** Warning: Flammable liquids.  
**- Danger code (Kemler):** 33  
**- EMS Number:** F-E,S-E  
**- Segregation groups** Acids  
**- Stowage Category** B

**- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

**- Transport/Additional information:**

**- ADR/RID/ADN**  
**- Limited quantities (LQ)** 1L  
**- 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  
**- Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**- UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED), 3, II, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

**- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**- Directive 2012/18/EU**

**- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t**

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- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Information about limitation of use:**  
Employment restrictions concerning young persons must be observed.
- **Disturbance regulations:**  
Critical quantity values according to the regulations on accidents should be adhered to.
- **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.

-----  
For industrial use only.

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Provisional Material Safety Data Sheet !

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- **Legend of H- and R-phrases, concerning the in chapter 3 mentioned substances (marking of product please see chapter 2)**  
H225 Highly flammable liquid and vapour.  
H242 Heating may cause a fire.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
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.  
H331 Toxic if inhaled.  
H332 Harmful 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.

- **Department issuing SDS:**

- **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- 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)

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VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Org. Perox. E: Organic peroxides – Type E/F

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- \* **Data compared to the previous version altered.**

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