

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.11.2023



Version number 6 (replaces version 5)

Revision: 16.11.2023

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

- 1.1 Product identifier
- Trade name: **KEMPERTEC AC-Primer blue (A)**
- UFI: KHVA-T01J-Q004-4XU3
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: Identified use: intended for professional use only!  
Primer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: KEMPER SYSTEM GmbH & Co. KG  
Holländische Strasse 32-36  
34246 Vellmar  
Deutschland / Germany  
Telefon: +49 (0)561 / 8295-0  
Telefax: +49 (0)561 / 8295-5110  
E-Mail: MSDS@KEMPER-SYSTEM.COM
- Further information obtainable from: research & development
- 1.4 Emergency telephone number: Medical Emergency information in case of poisoning:  
Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240  
(advisory service in German or English language)

## 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.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335 May cause respiratory irritation.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms
- The product is classified and labelled according to the CLP regulation.
- 

- GHS02      GHS07
- Signal word
- Danger
- Hazard-determining components of labelling:
- methyl methacrylate  
tetramethylene dimethacrylate  
ethylene dimethacrylate  
2-ethylhexyl acrylate  
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-
- Hazard statements
- H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.
- Precautionary statements
- P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241      Use explosion-proof [electrical/ventilating/lighting] equipment.  
P261      Avoid breathing dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P405      Store locked up.  
P501      Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.

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- vPvB: Not applicable.

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### SECTION 3: Composition/information on ingredients

## - 3.2 Mixtures

- Description: Mixture: consisting of the following components.

## - Dangerous components:

CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 2082-81-7 EINECS: 218-218-1	tetramethylene dimethacrylate Skin Sens. 1B, H317	≥1-<2.5%
CAS: 6606-59-3 EINECS: 229-551-7	1,6-hexanediylbismethacrylate Aquatic Chronic 3, H412	≥0.5-<2.5%
CAS: 97-90-5 EINECS: 202-617-2	ethylene dimethacrylate Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: C ≥ 10 %	≥1-<2.5%
CAS: 103-11-7 EINECS: 203-080-7	2-ethylhexyl acrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	≥1-<2.5%
EC number: 911-490-9	Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<0.5%

- 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

## - General information:

Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Do not leave affected persons unattended.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

## - After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

## - After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

## - After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

## - After swallowing:

If symptoms persist consult doctor.

## - 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:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.

## - 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.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

## - 5.3 Advice for firefighters

## - Protective equipment:

Do not inhale explosion gases or combustion gases.

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**- Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.  
Avoid contact with skin and eyes  
Ensure adequate ventilation

**- 6.2 Environmental precautions:**

Keep away from ignition sources.  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Do not allow product to reach sewage system or any water course.  
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).  
Dispose contaminated material as waste according to section 13.

**- 6.4 Reference to other sections**

Do not flush with water or aqueous cleansing agents  
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**

Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**- 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:**

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 frost.  
Store in dry conditions.  
Keep container tightly sealed.  
Recommended storage temperature: 5-30 °C

**- Storage class:**

3

**- 7.3 Specific end use(s)**

No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**- 8.1 Control parameters**

**- Ingredients with limit values that require monitoring at the workplace:**

**80-62-6 methyl methacrylate**

OEL	Short-term value: 100 ppm
	Long-term value: 50 ppm
	IOELV, Sens

**- Regulatory information**

OEL: 2021 CoP for the Safety, Health and Welfare at Work

**- Additional information:**

The lists valid during the making were used as basis.

**- 8.2 Exposure controls**

**- Appropriate engineering controls**

No further data; see section 7.

**- Individual protection measures, such as personal protective equipment**

**- General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing

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- Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
When used properly and under normal conditions, breathing protection is not required.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2  
Respiratory protection - Gas filters and combination filters according to (EN 14387)
- Respiratory protection:**
- Hand protection**
- 
- Protective gloves
- Only use chemical-protective gloves with CE-labelling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Check protective gloves prior to each use for their proper condition.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- Material of gloves**
- Recommended materials:  
Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.5$  mm  
Penetration time (min.):  $< 480$   
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material**
- The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.  
Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- As protection from splashes gloves made of the following materials are suitable:**
- Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.1$  mm  
Penetration time (min.):  $< 10$
- Eye/face protection**
- 
- Tightly sealed goggles
- Protective goggles and facial protection - Classification according to EN 166
- Body protection:**
- protective clothing (EN 13034)

### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**
- General Information**
- Colour:** Blue
- Odour:** Characteristic
- Odour threshold:** Not determined.
- Melting point/freezing point:** Undetermined.
- Boiling point or initial boiling point and boiling range** 101 °C
- Flammability** Not applicable.
- Lower and upper explosion limit**
- Lower:** Not determined.
- Upper:** Not determined.
- Flash point:** 10 °C
- Decomposition temperature:** Not determined.
- pH** Not determined.
- Viscosity:**
- Kinematic viscosity at 20 °C** 250 mm<sup>2</sup>/s
- Dynamic:** Not determined.
- Solubility**
- water:** Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value)** Not determined.
- Density and/or relative density**
- Density at 20 °C:** 0.99 g/cm<sup>3</sup>

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**2082-81-7 tetramethylene dimethacrylate**

Oral	LD50	10,066 mg/kg (rat) (OECD 401)
Dermal	LD50	>3,000 mg/kg (rabbit)

**97-90-5 ethylene dimethacrylate**

Oral	LD50	3,300 mg/kg (rat)
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**103-11-7 2-ethylhexyl acrylate**

Oral	LD50	4,435 mg/kg (rat) (IUCLID)
Dermal	LD50	7,522 mg/kg (rabbit) (IUCLID)

**Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-**

Oral	LD50	619 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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.
- **11.2 Information on other hazards**

**- Endocrine disrupting properties**

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

List II

**SECTION 12: Ecological information****- 12.1 Toxicity****- Aquatic toxicity:****80-62-6 methyl methacrylate**

NOEC	37 mg/l (Daphnia magna) (21 days; OECD 202 Part 2, flow)
EC3	37 mg/l (Scenedesmus quadricauda) (DIN 38412 Part 9; 8d)
EC0	100 mg/l (Pseudomonas putida)
EC50	69 mg/l (Daphnia magna) (48 h; OECD 202)
LC 50	>79 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96 h; OECD 203)

**2082-81-7 tetramethylene dimethacrylate**

EC50	9.79 mg/l (DESMODESMUS SUBSPICATUS) (72h; OECD 201)
	32.5 mg/l (Idus melanotus) (48h; OECD 203)
NOEC	20 mg/l (Belebtschlamm)
EC10	4.35 mg/l (DESMODESMUS SUBSPICATUS) (72d; OECD 201)
	7.51 mg/l (Daphnia magna) (21d; OECD 211)

**6606-59-3 1,6-hexanediylbismethacrylate**

LC50	4.5 mg/l /96 h (fish) (OECD 203 (96 hr))
EC50	5.33 mg/l /72 h (ALGAE)
	11.2 mg/l /48 h (Daphnia magna)

**97-90-5 ethylene dimethacrylate**

EC50	17.3 mg/l (ALGAE) (OECD 201)
	15.95 mg/l /96 h (fish) (OECD 203 (96 hr))
	44.9 mg/l /48 h (daphnia) (OECD 202 (48 hr))
	7.22 mg/l /21 d (Daphnia magna) (OECD 211 (21 hr))

**103-11-7 2-ethylhexyl acrylate**

Inhalative	LC50/8h	1.19 mg/l (rat) (OECD 403)
	LC50/96 h	1.8 mg/l (Oncorhynchus mykiss (Regenbogenforelle))

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EC50	17 mg/l (Daphnia magna) (48h; IUCLID)
EC50	>10,000 mg/l (Pseudomonas putida) (30 min.; IUCLID)
IC50	44 mg/l (DESMODESMUS SUBSPICATUS) (72h, IUCLID)
LC50	23 mg/l (Leuciscus idus (Goldorfe)) (48h; IUCLID)
<b>Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol 2'-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-</b>	
LC50/96 h	>100 mg/l (Cyprinus Carpio) (OECD 203 (96 hr))
EC50	>100 mg/l (Scenedesmus subspicatus) (OECD 201; static)
EC50	48 mg/l (Daphnia magna) (OECD 202; part 1 static)
EC50	>100 mg/l (Cyprinus Carpio) (96h; OECD 203; ISO 7346; 92/69/CEE; C.1 static)
NOEC	>100 mg/l (Scenedesmus subspicatus) (OECD 201, static)

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal according to official regulations

### - European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances
17 02 03	plastic

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

## SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1993
- **14.2 UN proper shipping name**
- **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)
- **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)

### - 14.3 Transport hazard class(es)

- **ADR**



- **Class** 3 (F1) Flammable liquids.

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- Label	3
- IMDG, IATA	
	
- Class	3 Flammable liquids.
- Label	3
- 14.4 Packing group	
- ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	
- Hazard identification number (Kemler code):	Warning: Flammable liquids.
- EMS Number:	-
- Stowage Category	F-E,S-E B
- 14.7 Maritime transport in bulk according to IMO instruments	
Not applicable.	
- Transport/Additional information:	
- ADR	
- 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	
- Tunnel restriction code	2 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), 3, II	

## SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I      None of the ingredients is listed.
- Seveso category      P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements      5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements      50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII      Conditions of restriction: 3

**- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**- REGULATION (EU) 2019/1148**

**- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**- Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

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**- Regulation (EC) No 273/2004 on drug precursors**

108-88-3 toluene

3

**- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

108-88-3 toluene

3

**- 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.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

**- Relevant phrases**

H225 Highly flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 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.

**- Department issuing SDS:**

research &amp; development

**- Contact:**

research &amp; development

**- Date of previous version:**

12.05.2021

**- Version number of previous version:**

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**- 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 relatif au transport international 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)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 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  
 Skin Sens. 1B: Skin sensitisation – Category 1B  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**- Sources**

- [www.echa.europa.eu](http://www.echa.europa.eu)  
 - [www.baua.de](http://www.baua.de)  
 IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:  
 - [www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp](http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp)  
 - [www.dguv.de/ifa/gestis/gestis-dnel-liste](http://www.dguv.de/ifa/gestis/gestis-dnel-liste)

- \* Data compared to the previous version altered.