

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

1.1 Product identifier

Erkosit liquid

CAS number: -
EC number (EINECS/ELINCS): -
EC index number: -
REACH registration number: -

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

Identified uses of the substance or mixture: Plastic articles
Not recommended uses of the substance or mixture: Other

1.3 Details of the supplier of the safety data sheet

Manufacturer

ERKODENT Erich Kopp GmbH
Siemensstrasse 3

Telephone: 07445 8501 0
Fax: 07445 2092

D 72285 Pfalzgrafenweiler

Supplier

Telephone:
Fax:

Information contact

ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 21

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E-mail (competent person): w.heuchert@erkodent.com

Website: www.erkodent.com

National contact

ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 0

Information fax:

E-mail (competent person): info@erkodent.com

Website:

1.4 Emergency telephone number

ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone: 07445 8501 0

1.5 Dept. responsible for information

Entwicklung +49 (0) 7445 8501-21

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008:

Flam. Liq. 2; H225 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Skin Sens. 1; H317 , STOT SE 3; H335

Directive 67/548/EEC:

F; R11 , Xi; R38 , Xi; R37 , -; R43

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:



	GHS02, GHS07
Signal word:	Danger
H phrases:	225 Highly flammable liquid and vapour. 315 Causes skin irritation. 317 May cause an allergic skin reaction. 319 Causes serious eye irritation. 335 May cause respiratory irritation.
P phrases:	210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 241 Use explosion-proof electrical/ventilating/lighting/.?/ equipment. 303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 321 Specific treatment (see 4. on this label). 405 Store locked up. 501 Dispose of contents/container in accordance with the regional and national regulations

2.2.2 Labelling according to Directive 67/548/EEC

Hazard symbols:



	Xi Irritant.
	F Highly flammable.
R phrases:	11 Highly flammable. 37 Irritating to respiratory system. 38 Irritating to skin.
S phrases:	43 May cause sensitization by skin contact. 9 Keep container in a well-ventilated place. 16 Keep away from sources of ignition - No smoking. 23 Do not breathe gas/fumes/vapour/spray. 24 Avoid contact with skin. 37 Wear suitable gloves. 60 This material and its container must be disposed of as hazardous waste.

2.3 Other hazards

none

3. Composition/information on ingredients

3.1 Chemical characterization of the substance or mixture

Aktivatorhaltige Flüssigkeit aus Methacrylsäureester
Methyl methacrylate, monomer, stabilized (Gemisch, mixture)

3.2 Composition of the substance or mixture

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:
Methacrylsäuremethylester	201-297-1	80-62-6	607-035-00-6		50-75 %	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	F; R11 Xi; R37/38 -; R43
Hexylmethacrylat	205-521-9	142-09-6	607-134-00-4		2,5-10 %	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	Xi; R36 Xi; R37 Xi; R38

Ingredients with EC exposure limits

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:

(The wording of the listed risk phrases is given in Chapter 16)

3.3 Additional information

none

4. First aid measures

4.1 Description of first aid measures

- General information:** Remove contaminated clothing immediately and dispose off safely.
- Following inhalation:** In case of inhalation of aerosols/spray mist/splash spots: Consult physician. If unconscious place in recovery position and seek medical advice.
- After skin contact:** After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist.
- Following eye contact:** In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
- After ingestion:** Do not induce vomiting. Immediately get medical attention.
- Self-protection:** First aid assistant: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms:** Depression of the central nervous system. Causes skin irritation. May cause sensitisation especially in sensitive humans.
- Nature of Hazard:** shortage of breath.

4.3 Indication of any immediate medical attention and special treatment needed

- Emergency aid:** Let water be swallowed in little sips (dilution effect).
- Treatment:** Treat symptomatically.

5. Fire fighting measures

5.1 General information

Use water spray/stream to protect personnel and to cool endangered containers.

5.2 Extinguishing media

Suitable: Extinguishing powder. Carbon dioxide. alcohol resistant foam.

Unsuitable: Water.

5.3 Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air.

5.4 Advice for fire fighters

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protection equipment. Remove all sources of ignition. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the assimilated material according to the section on waste disposal.

6.4 References to other sections

Wet clean or vacuum up solids. Clear spills immediately. Do not use a brush or compressed air for cleaning surfaces or clothing.

7. Handling and storage

7.1 Precautions for safe handling

Information for safe handling

Protect against: Heating UV-radiation/sunlight.

Technical measures

Use extractor hood (laboratory).

Precautions against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Additional information

none

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

No special technical protective measures are necessary.

Packaging materials

Keep/Store only in original container.

Requirements for storerooms and containers

Keep in a cool, well-ventilated place. Put lids on containers immediately after use.

Information about storing together in storage facility

Keep away from food, drink and animal feedingstuffs.

Further information concerning storage conditions

Always close containers tightly after the removal of product.

Storage class: 3

7.3 Specific end use(s)

Observe instructions for use.

8. Exposure controls / personal protection**8.1 Control parameters****8.1.1 Limits for occupational exposure****Exposure limit values**

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
Methacrylsäuremethylester	80-62-6	AGW	210 mg/m ³ ; 50 ml/m ³		2 (I); DFG, Y

EC exposure limit values

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

8.1.2 DNEL and PNEC values**DNEL-values**

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer

PNEC-values

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer

8.1.3 Control-Banding**Control-Banding**

none

8.1.4 Additional information

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

8.2 Exposure controls**Occupational exposure controls**

none

Chemical handling

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

Suitable gloves type: Butyl rubber. liquid-tight Solvent/Thinner.

Eye protection

Tightly sealed safety glasses.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Environmental exposure controls

refer to chapter 7. No further action is necessary. Do not empty into drains or the aquatic environment.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

8.3 Exposure scenario

none

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

State of matter: liquid
Colour: colourless
Odour: characteristic like: ester
Odour threshold: No data available

Safety relevant basis data

	Parameter	Value	Unit	Remark
Density:	at °C: 20	0,97	g/cm ³	
Package density:				not determined
pH:				not determined
Melting point / range:		- 48	°C	
Boiling temperature / range:		101	°C	
Flash point:		10	°C °C °C	
Flammability:		430	°C	
Lower flammability limit:				not determined
Upper flammability limit:				not determined
Explosion hazard:				not explosive. Vapours can form explosive mixtures with air.
Lower explosion limit:		2,1	Vol-%	literature value
Upper explosion limit:		12,5	Vol-%	literature value
Ignition temperature:				none Risk of selfignition.
Decomposition temperature:				not determined
Oxidizing characteristics:				not determined
Vapour pressure:	at °C: 20	47	hPa	
Relative vapour density:				not determined
Speed of				not determined

vaporization/evaporation rate:

Solubility in water:

Fat solubility:

Solubility in

log P O/W (n-octanol / water):

Viscosity:

Solvent separation test:

Solvent content:

100 %

slightly soluble
not determined
not determined
not determined
not determined

9.2 Other information

none

10. Stability and reactivity

10.1 Reactivity

Polymerization.

10.2 Chemical stability

none slow decomposition spontaneous decomposition

10.3 Possibility of hazardous reactions

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Heavy metals. Peroxides.

10.6 Hazardous decomposition products

none Hazardous decomposition products

10.7 Additional information

none

11. Toxicological information

11.1 Information on toxicological effects

Data apply to the principal component.

Acute toxicity

Substance:	CAS-No.:	Toxicological information
Methacrylsäuremethylester	80-62-6	LD-50 oral > 5000 mg / kg rat (Lit.) LD-50 inhalativ 7093 ppm / 4 h rat (Lit.)

Specific symptoms in laboratory animals

No data available

11.2 Irritation and etching

Irritant effect on the skin

Irritating to skin.

Irritant effect on the eye

mild irritant.

Irritant effect on the respiratory tract

Irritating to respiratory system.

Etching

No information available.

11.3 Sensitization

Skin sensitisation May cause sensitization by skin contact.

11.4 Repeated dose toxicity

No information available.

11.5 CMR effects**Carcinogenicity**

No information available.

Mutagenicity

No information available.

Reproductive toxicity

No information available.

11.6 General remarks

Classification: Irritant.

Practical experience

No information available.

Other observations

No information available.

Additional information

No information available.

12. Ecological information**12.1 Toxicity**

The information about ecology refers to the main components.

Eco toxicity

Substance:	CAS-No.:	Ecotoxicity
Methacrylsäuremethylester	80-62-6	LC-50 > 79 mg / l OECD 203 NOEC: 40 mg / l ISO 7346 Expositionsd: 96 h EEC84 Spezies: 449 V, C1 Oncorhynchus mykiss

12.2 Persistence and degradability

Degradation rate (%): 30,7 not readily biodegradable (according to OECD criteria)

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

No information available.

12.7 Further ecological information

Water Hazard Class: slightly hazardous to water (WGK 1)

12.8 Further details

Do not empty into drains or the aquatic environment.

13. Disposal considerations

13.1 Waste treatment methods

Appropriate disposal/Product

Waste disposal according to official state regulations. Carry out under observation of official regulations covering a chemical/physical treatment plant. Carry out a burning of hazardous waste according to official regulations. Consult the local waste disposal expert about waste disposal.

Appropriate disposal/ packaging

Waste disposal according to official state regulations.

Control report for waste code/ waste marking according to EAKV

Carry out a burning of hazardous waste according to official regulations.

Waste key product: 07 01 04 - andere organische Lösemittel, Waschflüssigkeiten und Mutterlaugen

Waste key packaging:

Remark

Waste disposal according to official state regulations.

14. Transport information

14.1 Overland transport (ADR/RID)

Proper Shipping name

Methylmethacrylat, monomer, stabilisiert

UN No.: 1247

Label: 3

Packing Group: II

Classification code: 3 (F1)

Remark: Limited quantity (LQ): 4 Transport category: 2 tunnel restriction code D/E

14.2 Transport by sea (IMDG)

Proper Shipping name

Methyl methacrylate, monomer, stabilized

UN-No.: 1247

Label: 3

Packing Group: II

EmS-No: F-E, S-D

MFAG:

Marine pollutant: Nein

Special Provisions:

Remark:

14.3 Air transport (ICAO-TI / IATA-DGR)

Proper Shipping name

Methyl methacrylate, monomer, stabilized

UN/ID-No.: 1247

Label: 3 **Packing Group:** II
Remark:

14.4 Mail

Label: 3 Packing Group: II Limited quantity (LQ): 4

15. Regulatory information

15.1 Labelling

Hazardous component(s) for labelling

Methyl meth acrylate

Special labelling of particular preparations

15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)

No information available.

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer

No information available.

Regulation (EC) No 850/2004 on persistent organic pollutants

No information available.

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals

No information available.

Regulation (EC) No 648/2004 (Detergents regulation)

No information available.

Restrictions under Title VIII of Regulation (EC) No 1907/2006

No information available.

National regulations

Moreover, national legislation has to be observed!

Informations on working limitations

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Major Accidents Ordinance

No information available.

Storage class according to VCI

3

Water Hazard Class according to VwVwS

2 water pollutant (WGK 2)

Technical Instructions on Air Quality Control (TA-Luft)

No information available.

Further regulations, limitations and legal requirements

Betriebssicherheitsverordnung (BetrSichV) Highly flammable

15.3 Chemical safety assessment

For this preparation a chemical safety assessment has been carried out:

For this substance a chemical safety assessment has not been carried out.

16. Other information

16.1 Wording of the H and R-phrases under paragraph 3

Regulation (EC) No 1272/2008

- 225 Highly flammable liquid and vapour.
- 315 Causes skin irritation.
- 317 May cause an allergic skin reaction.
- 319 Causes serious eye irritation.
- 335 May cause respiratory irritation.

Directive 67/548/EEC

- 37 Irritating to respiratory system.
- 38 Irritating to skin.
- 43 May cause sensitization by skin contact.

16.2 Training instructions

none/none

16.3 Recommended restrictions of use

none

16.4 Further remarks

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

16.5 Documentation of changes

* Data changed from previous versions

16.6 Data sources

none/none

16.7 Key and definition

Wording of the r-phrases under paragraph 3:

17. Appendix

17.1 Exposure scenario

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