

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****PV-Primer**

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CAS No.: --  
EG No.: --  
INDEX No.: --  
REACH No.: --**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses: Plastic articles  
Uses advised against: Other**1.3. Details of the supplier of the safety data sheet****Manufacturer**ERKODENT Erich Kopp GmbH  
Siemensstrasse 3

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D 72285 Pfalzgrafenweiler

Telephone: +49 7445 8501 0  
Telefax: +49 7445 8501-15**Supplier (manufacturer/importer/only representative/downstream user/distributor)**ERKODENT Erich Kopp GmbH  
Siemensstrasse 3

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D 72285 Pfalzgrafenweiler

Telephone: +49 7445 8501 0  
Telefax: +49 7445 8501-15**Information contact**

ERKODENT Erich Kopp GmbH

Information telephone: +49 7445 8501 21

Information telefax: +49 7445 8501-15

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

Website: www.erkodent.com

**1.4. Emergency telephone number**ERKODENT Erich Kopp GmbH  
Only available during office hours.

Telephone: +49 7445 8501 0

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008:

Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317; STOT SE 3, H335

**2.2. Label elements**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms:**



**Signal word:**

GHS02, GHS07

Danger

**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.  
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P321 Specific treatment (see .? on this label).  
P405 Store locked up.  
P501 Dispose of contents/container to .?.

**Hazardous component(s) for labelling**

Methyl methacrylate; 1,4-Butandiol dimethacrylate

**Special labelling of particular preparations:**

none

**2.3. Other hazards**

none

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Mixtures

### 3.2. Mixtures

Activator-containing liquid made from methacrylic acid ester  
Methyl methacrylate, monomer, stabilized (mixture)

**Composition/information on ingredients**

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
Methyl methacrylate	201-297-1	80-62-6				Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317; STOT SE 3, H335
1,4-Butandiol dimethacrylate	218-218-1	2082-81-7				Skin Sens. 1/1A/1B, H317
2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol	247-384-8	25973-55-1				Acute Tox. 4, H302; Aquatic Chronic 4, H413

(Full text of H- and EUH-phrases: see section 16.)

## SECTION 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.

- Following skin contact:** After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist.
- After 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. Call a physician immediately.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:** Extinguishing powder. Carbon dioxide. alcohol resistant foam. Water fog.

**Unsuitable extinguishing media:** High power water jet.

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

Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

##### General information

Use water spray jet to protect personnel and to cool endangered containers.

##### Special protective equipment for firefighters:

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

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### SECTION 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 allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advices on safe handling

Keep container tightly closed. Keep away from heat. Protect from sunlight. Technical ventilation of workplace. Measures to prevent aerosol and dust generation

#### Precautions against fire and explosion

Vapours can form explosive mixtures with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

## 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Protect from sunlight. Keep container tightly closed in a cool place.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Storage class: 3

## 7.3. Specific end use(s)

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit value

Substance:	CAS-No.:		Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
1,4-Butandiol dimethacrylate	2082-81-7	EN	MAK				see. Abschn.IV
Methyl methacrylate	80-62-6	EN	TRGS 900	50	210	2(l)	DFG, EU, Y

#### Substance with a common (EC) occupational exposure limit value

Substance:	CAS-No.:		Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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#### DNEL-/PNEC-values

##### DNEL value

Substance:	CAS-No.:	DNEL/DMEL
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##### PNEC Value

Substance:	CAS-No.:	PNEC
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#### Remark:

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

#### General protection and hygiene measures

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid contact with skin and eyes.

#### 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/face protection

Tightly sealed safety glasses.

### Body 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 allow to enter into surface water or drains.

### Consumer exposure controls

refer to chapter 7. No further action is necessary.

### Exposure Scenario

none

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance:

Physical state:

Liquid

Colour:

clear

Odour:

characteristic

Odour threshold:

not determined

#### Safety relevant basis data

	Parameter	Value	Unit	Remark
pH:				not determined
Melting point/freezing point:		- 48	°C	
Initial boiling point and boiling range:		101	°C	
Flash point:	DIN 51755	10	°C	
Evaporation rate:				not determined
Flammability (solid, gas):	DIN 51794	430	°C	
Explosive properties:				not explosive, formation of explosive vapor / air mixture possible
Lower flammability or explosive limits:		2,1	Vol-%	
Upper flammability or explosive limits:		12,5	Vol-%	
Vapour pressure:	at 20 °C	47	hPa	
Vapour density:				not determined
Relative density:				not determined
Density:				not determined
Solubility(ies):	:			not determined
Water solubility:				partially miscible
Fat solubility:				not determined
Partition coefficient: n-octanol/water:				not determined

Auto-ignition temperature:	none Risk of selfignition
Decomposition temperature:	not determined
Viscosity:	not determined
Oxidising properties:	not determined
Solvent content:	not determined

## 9.2. Other information

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Polymerization.

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Based on available data, the classification criteria are not met.

M-factor: --

Acute toxicity (dermal): --

Acute toxicity (oral): --

Acute toxicity (inhalative): --

#### Acute toxicity

Substance:	CAS-No.:	Toxicological information
Methyl methacrylate	80-62-6	LD50 oral (rat) > 5000 mg/kg LC50 inh. (rat) (4 h) 7093 ppm
1,4-Butandiol dimethacrylate	2082-81-7	LD50 oral (rat) > 5000 mg/kg

#### 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.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on available data, the classification criteria are not met.  
Germ cell mutagenicity  
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**

Irritating to respiratory system.

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## SECTION 12: Ecological information

### 12.1. Toxicity

The information about ecology refers to the main components.

**Ecotoxicity**

Substance:	CAS-No.:	Ecotoxicity
Methyl methacrylate	80-62-6	LC50 fish (96 h) > 79 mg/l NOEC/NOEL Daphnia (Daphnia magna) 21 d 40 mg/l

### 12.2. Persistence and degradability

Theoretical oxygen demand (ThOD): Degradation rate (%): 30.7, not readily biodegradable (according to OECD criteria) OECD 301 C

### 12.3. Bioaccumulative 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.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Appropriate disposal/Product:**

Dispose of waste according to applicable legislation. Send to a physico-chemical treatment facility under observation of official regulations. Send to a hazardous waste incinerator facility under observation of official regulations. Consult the appropriate local waste disposal expert about waste disposal.

**Appropriate disposal / Package:**

Disposal in accordance with the recycling and waste legislation.

**List of proposed waste codes/waste designations in accordance with EWC**

Send to a hazardous waste incinerator facility under observation of official regulations.

**Waste code product:** --

Waste code packaging: --

## SECTION 14: Transport information

### 14.1. UN number

UN No.: 1247

### 14.2. UN proper shipping name

ADR / RID

Methylmethacrylat, monomer, stabilisiert

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IMDG / ICAO-TI / IATA-DGR

Methyl methacrylate, monomer, stabilized

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### 14.3. Transport hazard class(es)

Hazard label(s):: 3

Classification Code:

3 (F1)



### 14.4. Packing group

Packing Group: II

### 14.5. Environmental hazards

Labelling environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:

☐ yes / ☒ no

Marine Pollutant:

☐ yes / ☒ no

### 14.6. Special precautions for user

Land transport (ADR/RID)

Transport category: 2

Special provisions: --

Tunnel restriction code: D/E

Limited quantity (LQ): 1000ml

Sea transport (IMDG)

EmS-No: F-E, S-D

Special provisions: --

Limited quantity (LQ): 1000ml

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Remark: not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation



**Regulation (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register:**

No information available.

**Regulation (EC) No 1005/2009 on substance that deplete the ozone layer:**

No information available.

**Regulation (EC) No 648/2004 on detergents:**

No information available.

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

No information available.

**Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals:**

No information available.

**Restrictions according to Title VIII of Regulation (EC) No 1907/2006:**

Use restriction according to REACH annex XVII, no.: 3

**National regulations**

Observe in addition any national regulations!

**Restrictions of occupation**

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.

**Other regulations, restrictions and prohibition regulations**

CAS: 25973-55-1 2- (2H-Benzotriazol-2-yl) -4,6-ditertpentylphenol This substance is considered to be special

Concerning (SVHC) listed in the candidate list according to REACH, Article 57.

## 15.2. Chemical Safety Assessment

**A chemical safety assessment has been carried out for this substance:**

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

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## SECTION 16: Other information

**Relevant H- and EUH-phrases (Number and full text)**

**Hazard statements**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.

**Training advice**

none

**Recommended restrictions of use**

none

**Further information**

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.

**Documentation of changes**

none

**Key literature references and sources for data**

none

**Abbreviations and acronyms**

AC: Artikelkategorie (Article Category)  
ACGIH: Rat für Arbeitsschutz und Gefahrstoffe, Amerika (American Conference of Government Industrial Hygienists)  
ADN: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf Binnengewässern (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
ADR: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße (Accord européen relatif transport des marchandises dangereuses par route)  
AGW: Arbeitsplatzgrenzwert  
AOX: Adsorbierbare organisch gebundene Halogene (Adsorbable Organic halogen compounds)  
Bw: Körpergewicht (Body weight)  
CMR: Stoffe klassifiziert als Krebserzeugend, Mutagen oder Reproduktionstoxisch (Carcinogenic, Mutagenic, toxic for Reproduction)  
CSR: Stoffsicherheitsbericht (Chemical Safety Report)  
DIN: Deutsches Institut für Normung / Deutsche Industrienorm  
DNEL: Grenzwert, unterhalb dessen der Stoff keine Wirkung ausübt (Derived No Effect Level)  
DPD: Zubereitungsrichtlinie / Richtlinie 1999-45-EC (Dangerous Preparations Directive)  
DSD: Stoffrichtlinie / Richtlinie 67-548-EC (Dangerous Substances Directive)  
DU: Nachgeschalteter Anwender (Downstream User)  
EC50: Wirksame Konzentration 50% (Effective Concentration 50%)  
ECHA: Europäische Chemikalienagentur  
EN: Europäische Norm  
EWC/EWL: Europäischer Abfallartenkatalog (European Waste Catalogue)  
IATA: Verband für den internationalen Lufttransport (International Air Transport Association)  
IBC: Großpackmittel (Intermediate Bulk Container)  
ICAO: Internationale Zivilluftfahrt-Organisation (International Civil Aviation Organization)  
IMDG Code: Gefahrgutvorschriften für den internationalen Seetransport (International Maritime Dangerous Goods Code)  
IMO: Internationale Seeschiffahrts-Organisation (International Maritime Organization)  
ISO: Internationale Normungsorganisation (International Standards Organisation)  
LC50: Lethale (Tödliche) Konzentration 50%  
LD50: Lethale (Tödliche) Dosis 50%  
LEV: Lokale Absaugung (Local exhaust ventilation)  
MAK: Maximale Arbeitsplatzkonzentration – DFG  
n.a.: nicht anwendbar  
n.b.: nicht bestimmt  
OEL: Arbeitsplatzgrenzwert (Occupational Exposure Limit)  
PBT: persistent, bioakkumulierbar, giftig (persistent, bioaccumulative, toxic)  
PNEC: Abgeschätzte Nicht-Effekt-Konzentration (Predicted No Effect Concentration)  
PPE/PSA: Persönliche Schutzausrüstung (Personal Protective Equipment)  
REACH: Registrierung, Bewertung und Zulassung von Chemikalien (Registration, Evaluation and Authorization of Chemicals)  
RID: Gefahrgutvorschriften für den Transport mit der Eisenbahn (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Grenzwert für Kurzzeitexposition (Short-term Exposure Limit)  
SVHC: Stoff sehr hoher Besorgnis (Substance of Very High Concern)  
TLV: Arbeitsplatzgrenzwert (Threshold Limit Value)  
VOC: Flüchtige organische Kohlenwasserstoffe (Volatile Organic Compounds)  
vPvB: sehr persistent, sehr bioakkumulierbar (very persistent, very bioaccumulative)