

**Trade name: USIG-Primer****Safety data sheet in accordance with (EG) Nr. 1907 / 2006**

Date of printing : 10.12.2010

**01. Identification**

Product details	
Trade name	USIG-Primer
Application of the material / of the formulation	

Identification of the manufacturer	
Address	ERKODENT Erich Kopp GmbH, Siemensstr. 3, D-72285 Pfalzgrafenweiler
Information provided by	Chemie
Telephone number	Tel.: (+49) (0) 7445 / 85 01 - 0, Fax: (+49) (0) 7445 / 20 92, e-mail: w.heuchert@erkodent.com
Emergency telephone number :	

**02. Hazards possibilities**

Hazard designation	Irritant, Highly flammable
Particular information pertaining specific risk for human / environment	Highly flammable, Irritating to respiratory system and skin., May cause sensitization by skin contact.

**03. Composition/information on ingredients**

Chemical characterization	Methacrylsäureester Liquid					
Substance / product identification						
Hazardous ingredients						
	<b>CAS no.</b>	<b>EINECS no.</b>	<b>%</b>	<b>Hazard symbols</b>	<b>R phrases</b>	
	Methylmethacrylat	80-62-6	201-297-1	75 < 100	Xi, F	11, 37/38, 43
	n-Hexylmethacrylat	142-09-6	205-521-9	2,5 – 10	Xi	36/37/38
Additional information						

**04. First aid measures**

General Information	Remove contaminated, soaked clothing immediately and dispose of safely., If individual is drowsy or unconscious place in recovery position (on left side, with head down).
First aid measures / inhalation.	Ensure supply of fresh air., In the event of symptoms take medical treatment.
First aid measures / skin contact.	In case of contact with skin wash off immediately with soap and water., Consult a doctor if skin irritation persists.
First aid measures / eye contact.	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water., Begin with medical treatment.
First aid measures / ingestion..	Seek medical advice immediately., Turn a vomiting person lying on his back onto his side.
Advice to doctor	-

**05. Fire-fighting measures**

Suitable extinguishing media	foam dry powder carbon dioxide. water mist
Extinguishing media that must not be used for safety reasons	Full water jet
Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases.	In use, may form flammable/explosive vapour-air mixture.
Special protective equipment for firefighting	Use self-contained breathing apparatus.
Additional informations (chapter 5)	Cool endangered containers with water spray jet., Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**06. Accidental release measures**

personal precautions.	Keep away sources of ignition., Avoid contact with skin, eyes and clothing., Ensure adequate ventilation., Use personal protective clothing.
environmental precautions.	Do not allow to enter drains or waterways., Do not discharge into the subsoil/soil.
methods for cleaning up/taking up.	Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr)., Dispose of absorbed material in accordance with the regulations.
Additional informations (chapter 6).	

**07. Handling and storage**

Handling	
Hints on safe handling.	Open and handle container with care., Provide good ventilation of working area (local exhaust ventilation if necessary).
Hints for protection against fire and explosion.	Keep away from sources of ignition - refrain from smoking.

Storage	
Requirements for storage rooms and vessels.	Store product in closed containers.
Hints on storage assembly.	-
Further information on storage conditions.	Keep container tightly closed, cool and dry., Protect from heat and direct sunlight., Protect from contamination.
Storage category	Highly flammable
Storage stability	-
Recommended storage temperature	-

**08. Exposure controls/personal protection**

Additional hints on technical system design.	See chapter 7; no measures exceeding the ones mentioned are necessary.
Ingredients with occupational exposure limits to be monitored	CAS: 80-62-6 Methylmethacrylat; MAK: MMA 50 ppm – 210 mg/m <sup>3</sup>

Personal protective equipment <input type="checkbox"/> Personal protective equipment <input type="checkbox"/> Persönliche Schutzausrüstung	
Respiratory protection	Short term: filter apparatus, filter AX
Hand protection	Synthetic rubber gloves
Eye protection	tightly fitting safety glasses
Skin protection	light protective clothing
General protective and hygiene measures	Do not eat, drink or smoke during work time., Keep separated from food-stuffs and feed-stocks., Remove soiled or soaked clothing immediately., Keep separated from food-stuffs and feed-stocks., Avoid contact with eyes and skin., Observe the usual precautions when handling chemicals.

**09. Physical and chemical properties**

Appearance.	
Form	Liquid
Colour	colourless
Odour	ester-like

Safety data	
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## Changes in physical state

Melting point	- 48	°C	
Boiling point	101	°C	
Flash point	10	°C	DIN 51755

## Ignition temperature

	430	°C	DIN 51794
self ignition			
explosion limits	2,1	Vol %	
Upper explosion limit	12,5	Vol %	
Vapour pressure			
	47	hPa	20 °C
Density			
	0,945	g/cm3	20 °C
Solubility in water			
	partially miscible	g/l	20 °C
Soluble in			
Miscible with organic solvents in all proportions		g/l	
pH-Value			
	n.a.		
Viscosity			
	n.b.		

Other information ( chapter 9.)	-
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**10. Stability and reactivity**

Hazardous reactions	Reactions with impurities., Reactions with reducing agents., peroxides
Hazardous decomposition products	No decomposition if used as prescribed.
Thermal decomposition	Stable at ambient temperature.
Additional informations (chapter 10)	-

**11. Toxicologic indications**

Acute toxicity	
Acute oral toxicity	LD50 MMA > 5000 mg/kg rat
Acute dermal toxicity	-
Acute inhalational toxicity	LC50 MMA 7093 ppm/4h rat
Irritant/corrosive effects	
Irritant effect on skin	irritant
Irritant effect on eyes	irritant - risk of serious damage to eyes
Sensitization	Possibility of sensitization through skin contact.
Effects after repeated or prolonged exposition (subacute, subchronic, cronic)	The product can cause skin and eye irritation., Irritates the mucous membrane.
Other information (chapter 11.)	-
Experiences made in practice.	-
General remarks.	-

**12. Environmental indications**

Data on elimination ( persistence and degradability) :	
Physico-chemical eliminability	-
Biodegradability	30,7 % (28 d) OECD 301 C, not readily degradable
Behaviour in environment compartments.	-
Ecotoxic effect	
Fish toxicity	(MMA) LC50: > 79 mg/l (OECD 203); NOEC: 40 mg/l (ISO 7346) Oncorhynchus mykiss (449 V,C1), 96 h EEC84
Daphnia toxicity	-
Algae toxicity	-
Bacteria toxicity	EC0: 100 mg/l MMA Pseudomonas putida
Further ecological information	Do not allow to enter soil, waterways or

	waste water canal.
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Result of the evaluation of PBT characteristics	
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### 13. Disposal considerations

Disposal considerations	
Disposal / product	-
Disposal / contaminated packagings.	Completely emptied packagings can be given for recycling.

Waste code no. / name of waste (for Germany only)	07 01 04 The stated Waste Code Number(s) according to the European Waste Catalogue (EAK) is (are) considered as a recommendation. A definite setting (establishment) should be carried out in co-ordination with the Regional Waste Disposal Authority.
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### 14. Transport information

Land transport ADR/RID	
Class	3 (F1)
Number/letter	-
Hazard number (Kemler-number)	339
UN number	1247
Technical name	METHYLMETHACRYLATE MONOMER, STABILISIERT
Remarks	VG/PG: II

Inland waterways transport ADN/ADNR	
Class	-
Number/letter	-
Category	-
Technical name	METHYLMETHACRYLATE MONOMER, STABILISIERT
Remarks	-

Marine transport IMDG/GGVSee	
Class	3
UN number	1247
page	3
EmS	F-E, S-D
MFAG	-
MARINE POLLUTANT	-
Correct technical name	METHYLMETHACRYLATE MONOMER, STABILIZED
Remarks	PG/VG: II

Air transport ICAO/IATA	
Class	3
UN number	1247
page	3
Correct technical name	METHYLMETHACRYLATE MONOMER, STABILIZED
Remarks	PG/VG: II

Other information (chapter 14.)	-
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### 15. Regulatory information

Labelling in accordance with GefStoffV/EC	
The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.	

Hazard symbols	Xi	Irritant
	F	Highly flammable
TA-Luft / components		METHYLMETHACRYLATE MONOMER

R phrases	R 11	Highly flammable
	R 37/38	Irritating to respiratory system and skin.
	R 43	May cause sensitization by skin contact.

S phrases	S 9	Keep container in a well-ventilated place.
	S 16	Keep away from sources of ignition --- No smoking.
	S 24	Avoid contact with skin.
	S 33	Take precautionary measures against static discharges.
	S 37	Wear suitable gloves.
	S 60	This material and its container must be disposed of as hazardous waste.

Other regulations	
Restriction of occupation.	-
Decree for case of interference / remarks (for Germany only).	-
Classification according to VbF / remarks (for Germany only).	A I
TA-Luft (Ger.)	Class: II 75-100% Class: III 2,5-10%
Water Hazard Class (Ger.)	1
Other regulations, restrictions and prohibition regulations (for Germany only)	-
Securityevaluation++Stoffsicherheitsbeurteilung	

## 16. Other information (chapter 16.).

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(n.a. = Not applicable; n.b.= not determined)

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.