

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: TD OraMask
Revision Date: 23.09.2014

KENTZLER
KASCHNER
DENTAL

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

Product identifier

TD OraMask

Article No. (REF)

23040S – Complete Package
23034 – 80 ml Powder
23035 – 50 ml Liquid

Supplier / Manufacturer

Kentzler-Kaschner Dental GmbH

Street / PO Box

Mühlgraben 36

National indicator / Code / City

D - 73479 Ellwangen

Contact for technical information

Phone +49/7961/90 73 0

Telephone / Telefax / E-Mail

Phone +49/7961/90 73 0 FAX: 07961/52031 /E-Mail: info@kkd-topdent.de

Emergency contact information

Phone +49/7961/90 73 0

02. Hazards identification

Classification of the substance or mixture

R-Phrases

R 10	Flammable.
R 36 / R 37 / R 38	Irritating to eyes, respiratory system and skin.
R 20 / R 21 / R 22	Harmful by inhalation, in contact with skin and if swallowed.
R 33	Danger of cumulative effects.
R 43	May cause sensitisation by skin contact.

Labelling



Xi – Irritant



N – Dangerous to the environment

R-Phrases

R 10	Flammable.
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S-Phrases

- S 16 Keep away from sources of ignition — No smoking.
S 20 When using do not eat or drink.
S 24 / S 25 Avoid contact with skin and eyes.
S 27 Take off immediately all contaminated clothing.

Classification according to Directive 1272/2008EC



Signal word: Attention

H-Phrases

- H 226 Flammable liquid and vapour.
H 319 Causes serious eye irritation.
H 315 Causes skin irritation.
H 335 May cause respiratory irritation.
H 302 / H 312 / H 332 Harmful if swallowed, in contact with skin or if inhaled
H 373 May cause damage to organs through prolonged or repeated exposure.
H 317 May cause an allergic skin reaction.

P-Phrases

- P 210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P 270 Do not eat, drink or smoke when using this product.
P 262 Do not get in eyes, on skin, or on clothing.
P 361 Take off immediately all contaminated clothing.

Information concerning particular hazards for human and environment

Hazardous reactions with other agents

Acids, alkalis, oxidizing agents, azo compounds, heavy metals.
Possible spontaneous polymerization at elevated temperature with evolution of heat.

03. Composition / Information of Ingredients

Chemical Characterization

Mixture of esters of methacrylic acid and citric acid, activators, stabilizers

Hazardous Components

Description	CAS-No.	Index-No.	EEC-No.	Content	R-Phrases	Symbol
Isobutyl methacrylate, Methyl 2-propylmethacrylat	97-86-9	607-113-00-X	203-613-0	> 20 %	R 36 / R 37 R 38-R 43	Xi
Dibenzoyl peroxide	94-36-0	617-008-00-0	207-327-6	C < 1 %		
N, N'-Dimethy-p-toluidine	99-97-8	612-056-00-9	202-805-4	C < 1 %		

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Additional Information

The safety data sheet only apply to the component A (liquid).
ORAMASK component B (powder) is not a dangerous preparation according to EC directives and also contains no hazardous materials.

04. First-aid Measures

General Information

Remove contaminated clothing immediately. Medical treatment is necessary if symptoms apparently due to the action of the product on skin, eyes and inhalation of its vapors.

After Inhalation

Move the victim to fresh air and keep him calm. Seek medical treatment.

After skin contact

Immediately wash with water and soap and rinse thoroughly. Consult a doctor if skin irritation persist.

After eye contact

Rinse opened eye for several minutes under running water or eyewash lotion and seek medical advice.

After swallowing

Call a physician immediately.

Notes to a doctor

Treatment according to the given symptoms.

05. Fire fighting measures

Extinguishing media

Water spray, foam, dry powder, carbon dioxide.

Unsuitable Extinguishing media

Water with full jet.

Special hazards arising from the substance or preparation itself, combustion products or resulting gases

During combustion or thermal decomposition formed vapors may be irritant to the respiratory tract and eyes.

Special protective equipment for firefighters

Provide good ventilation, wear respiratory protection for fire of larger quantities.

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06. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep ignition sources away, on larger quantities wear self-contained breathing apparatus.

Environmental precautions

Do not allow to enter drains.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, etc.), pumping out / suck out large, note EX-protection, dispose of in compliance with local regulations.

Waste key

57202 Residues from plastics manufacturing and processing.

07. Handling and Storage

Advice on safe handling

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Advice on protection against fire and explosion

Keep container tightly closed, ensure good ventilation, do not smoke during processing, keep away sources of ignition, take precautionary measures against static charge on larger quantities and use only explosion proof equipment.

Methods and material for containment and cleaning up

See Section 6.

Additional Information

Store only in the original container in a cool (not above 30 ° C) dry and dark place.

08. Exposure controls / personal protection

Components with workplace control parameters

Description	CAS-No.	Value
Esters of methacrylic acid	97-86-9	MAK: 300 mg/m ³

Personal protective equipment

Respiratory protection

For larger quantities or insufficient ventilation.

Eye protection

If necessary wear protective goggles.

Hand protection

On prolonged exposure and larger quantities.

Body protection

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General protective measures

When handling the product do not eat, drink or smoke.

Hygiene measures

Wash hands after use.

09. Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance

Form: Liquid
Colour: Yellowish
Odour: Ester-like, slightly pungent.

Important Information on health, and environmental protection and safety

pH-value:	Not determined.	
Boiling point:	155 °C	1013 hPa
Flashpoint:	43 °C	DIN 51755
Ignition temperature:	Not determined.	
Self-Ignition temperature:	Not determined.	
Oxidizing properties:	Yes, product is flammable.	
Danger of explosion:	Formation of explosive air / product mixtures are possible.	
Lower Explosion Limit:	Not determined.	
Upper Explosion Limit:	Not determined.	
Vapour pressure:	4 hPa	at 20 °C
Density:	0.89 g/cm ³	
Solubility in water:	approx. 133	
Partition coefficient n-octanol/water:	2.66	
Viscosity:	0.9 mPas	Brookfield
Solvent content:	Not determined.	

10. Stability and reactivity

Conditions to avoid

High temperatures (> 40 ° C), direct sunlight.

Materials to avoid

In the presence of free-radical initiators (peroxides), reducing substances and / or heavy metal ion polymerization is possible with evolution of heat.

Hazardous decomposition products

None when used as intended.

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11. Toxicological information

Components with workplace control parameters

Esters of methacrylic acid

	Value / Range (mg/kg)	Species	Method
LD ₅₀ oral:	9600 mg/kg	Rat	
LD ₅₀ dermal:	17760 mg/kg	Rabbit	
LC ₅₀ inhaled:	20600 mg/m ³ / 6h	Rat	

Irritation and corrosive effects

	Effect	Species	Method
Eye:	Not Irritant	Rabbit	OECD 405, GLP
Skin:	Irritant	Rabbit	Exposure time 24 h

Sensitization

	Effect	Species	Method
Skin:	Not sensitizing	Guinea Pig	Magnusson-Kligman
Respiratory tract:			

Effects after repeated or prolonged exposure

Irritant.

Carcinogenicity, mutagenicity, reproductive effects

No known mutagenic effects.

Other Information

Avoid prolonged skin contact and inhalation of fumes if possible.

Experience in practice

Observations relevant for classification

After many years of practical use no particular negative influences are known.

12. Ecological information

Information about elimination (persistence and degradability)

Physicochemically

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Biological

Method:	Respirometr. Investigation
Degree of elimination:	33.7 % / 28 d
Rating:	Not readily biodegradable.

Behaviour in environment

Mobility and bioaccumulation potential

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Ecotoxicity effects

Aquatic toxicity

	Test type (Species / Duration)	Drug concentrations	Method
Fish:	Rainbow trout	LC50: 20 mg/l / 96 h	OECD203, GLP
Daphnia:	Daphnia magna	LC50: > 29 mg/l / 48 h	OECD202, GLP
Algae:	Selenastrum capricornutum	EC50: > 0,74 mg/l / 96 h	OECD201, GLP
Bacterium:	Pseudomonas fluorescens	ECO: > 281 mg/l	DEV L8

Behaviour in sewage plant

Not readily biodegradable.

General Information

Do not allow to enter large quantities into soil, waterways or sewers.

13. Disposal Considerations

Product Recommendation

Waste code number

57202 Manufacturing residues from the manufacture of plastics and processing.
Burden of proof in larger quantities.

Contaminated Packaging Recommendation

Glass recycling.

14. Transport information

Land transport

ADR / RID / GGVS / GGVE

Class

3

Number / Letter:

31c

Description of goods:

2283 Esters of methacrylic acid.

Comment:

Small amount - therefore not relevant.

Inland waterways transport

ADN / ADN

Class:

3

Number / Letter:

31c

Description of goods:

2283 Esters of methacrylic acid.

Comment:

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Sea transport

IMDG / GGVSee

Class: 3.3
UN-Number: 2283
PG: III
EmS-No.: 3-07
MFAG: 330
Proper Shipping name: Esters of methacrylic acid.

Air transport

ICAO-TI / IATA-DGR

Class: 3
UN / ID-Number: 2283
PG: III
Proper Shipping name: Esters of methacrylic acid.

15. Regulations

Hazard-determining components of labeling

Containing esters of methacrylic acid activator.

Labelling



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National Regulations

Classification according to VbF

A II

Technical Instructions on Air Quality

Class: III Paragraph: 3.1.7

Water Hazard Class

1

16. Other information

Issuing Department for Material Safety Data Sheet

Product Development / Quality Management

Source of the main information

Material Safety Data Sheet of the Manufacturer

GENERAL HINTS

The information contained herein is based on the present state of our knowledge and on our experiences with the product. The material safety data sheet is strictly intended for risk minimizing when handling the product. The informations characterize it exclusively with regard to safety aspects and does not represent a guarantee of the properties of the product within the meaning of our general terms and conditions. The information does not dispense the user from his duties of care with respect to the observance of present laws, regulations, and terms.