

Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

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

- · 1.1 Product identifier
- · Trade name:

TopDent OraMask / KKD Ora Soft

Powder

Product contains multiple components, subsequently, all safety data sheets contained in this document are to be taken into consideration.

- · Article number: according to Catalog
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU20 Health services
- · Environmental release category ERC2 Formulation into mixture
- · Application of the substance / the mixture Dental material
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Kentzler-Kaschner Dental GmbH

Mühlgraben 36 D-73479 Ellwangen Tel: +49/7961/90730 Fax: +49/7961/52031

Fax: +49//961/52031 E-Mail: info@kkd-topdent.de

· Further information obtainable from:

During normal business hours

Monday-Thursday 08:30 - 12:30 and 13:00 - 16:30 CET

Friday 08:30 - 12:30 and 13:00 - 15:00 CET

• 1.4 Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

dibenzoyl peroxide

· Hazard statements

H317 May cause an allergic skin reaction.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

(Contd. on page 2)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 1)

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

*P321* Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

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. · **vPvB**: Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Dental material

	Dangerous	com	pon	ents:
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· 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:

Take affected persons out of danger area and lay down.

Do not leave affected persons unattended.

Take affected persons out into the fresh air.

· After inhalation:

Take affected persons into fresh air and keep quiet.

Supply fresh air and to be sure call for a doctor.

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

· After skin contact:

If skin irritation continues, consult a doctor.

*Immediately wash with water and soap and rinse thoroughly.* 

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Inform doctor. Do not give milk or fatty oils.
- · 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Carbon dioxide (CO2)
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

(Contd. on page 3)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 2)

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures
- Remove persons from danger area.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 6.4 Reference to other sections

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 Open and handle receptacle with care.
- · Information about fire and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Prevent impact and friction.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Stockages VDS 3103

Store only in the original receptacle.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

- · Storage class: Storage group: 10-13
- · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

#### 94-36-0 dibenzoyl peroxide

WEL Long-term value: 5 mg/m<sup>3</sup>

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· Respiratory protection:

DGUV 112-190 Breathing apparatus

Suitable respiratory protective device recommended.

Particle filter P2

(Contd. on page 4)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 3)

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

Fluorocarbon rubber (Viton)

Butyl rubber, BR

Recommended material thickness: Butylkautschuk: 0,50 mm +/- 0,10 mm Fluorkautschuk: 0,75 mm +/- 0,10 mm

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

Basis: DGUV 212-007

Permeation (Fluorkautschuk) + Level 6 (> 480 min) Permeation (Butykautschuk): + Level 6 (> 480 min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Neoprene gloves Natural rubber, NR

· Eye protection: Not required.

#### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Like powder
Colour: Pink

Odour: Characteristic
Odour threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gas): May cause fire.

(Contd. on page 5)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

	(Contd. of page 4
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Extreme risk of explosion by shock, friction, fire or other source of ignition.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density at 20 °C:	1.16 g/cm³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
· 9.2 Other information	No further relevant information available.

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Open fire, hot surfaces, high temperatures
- · 10.5 Incompatible materials: oxidants, acids, bases
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · 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 (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 Based on available data, the classification criteria are not met.

(Contd. on page 6)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 5)

- · 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.

## SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **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.

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

14.1 UN-Number ADR, ADN, IMDG, IATA	Not applicabel Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable Void
14.3 Transport hazard class(es)	Not applicabel
ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Not applicable Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Danger code (Kemler):	Not applicable.
14.7 Transport in bulk according to Anne. Marpol and the IBC Code	x II of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
ADR Remarks:	No Dangerous Goods

(Contd. on page 7)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

· IMDG
· Remarks:

No Dangerous Goods

· IATA
· Remarks:

Not restricted

· UN "Model Regulation":

Void

## **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.
- · 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.

· Relevant phrases

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

· Department issuing SDS:

LOGAR Günther Hasel e.K.

Baden-Airpark, Airport Boulevard B 210

D-77836 Rheinmünster Tel: +49(0)7229-1868-163 Fax: +49(0)7229-1868-165

· Contact: info@logar.de

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

 $Org.\ Perox.\ B:\ Organic\ peroxides-Type\ B$ 

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

GB -



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

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

- · 1.1 Product identifier
- · Trade name:

TopDent OraMask / KKD OraSoft

Liquid

Product contains multiple components, subsequently, all safety data sheets contained in this document are to be taken into consideration.

- · Article number: according to Catalog
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU20 Health services
- · Environmental release category ERC2 Formulation into mixture
- · Application of the substance / the mixture Dental material
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Kentzler-Kaschner Dental GmbH

Mühlgraben 36 D-73479 Ellwangen Tel: +49/7961/90730

Fax: +49/7961/52031 E-Mail: info@kkd-topdent.de

· Further information obtainable from:

During normal business hours

Monday-Thursday 08:30 - 12:30 and 13:00 - 16:30 CET

Friday 08:30 - 12:30 and 13:00 - 15:00 CET

• 1.4 Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

(Contd. on page 2)



Version number 1 Revision: 16.03.2017 Printing date 16.03.2017

(Contd. of page 1)



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS08



GHS06 GHS02

#### · Signal word Danger

#### · Hazard-determining components of labelling:

isobutyl methacrylate

*N,N-dimethyl-p-toluidine* 

mequinol

#### · Hazard statements

H226 Flammable liquid and vapour.

H331 Toxic if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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.

(Contd. on page 3)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

· vPvB: Not applicable.

(Contd. of page 2)

### SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Dental material

· Dangerous compone	nts:	
	isobutyl methacrylate  Flam. Liq. 3, H226; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	35-<40%
EINECS: 202-805-4	N,N-dimethyl-p-toluidine  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Chronic 3, H412	1-<5%
	mequinol ••• Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317	<1%
CAS: 77-90-7 EINECS: 201-067-0	Tributyl acetylcitrate	55-<60%

· 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:

Take affected persons out of danger area and lay down.

Do not leave affected persons unattended.

Take affected persons out into the fresh air.

- · After inhalation: Take affected persons into fresh air and keep quiet.
- $\cdot \textit{After skin contact:} \ \textit{If skin irritation continues, consult a doctor.}$
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Inform doctor. Do not give milk or fatty oils.
- · 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture Carbon dioxide (CO2)
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 4)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 3)

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 6.4 Reference to other sections

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 No special precautions are necessary if used correctly.
- · Information about fire and explosion protection:

Do not spray onto a naked flame or any incandescent material.

- · 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: None.
- · Storage class: Storage group: 3A
- $\cdot$  7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection:

DGUV 112-190 Breathing apparatus

Filter type A2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Fluorocarbon rubber (Viton)

Butyl rubber, BR

Recommended material thickness: Butylkautschuk: 0,50 mm +/- 0,10 mm Fluorkautschuk: 0,75 mm +/- 0,10 mm

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

Basis: DGUV 212-007

Permeation (Butykautschuk): + Level 6 (> 480 min)

(Contd. on page 5)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 4)

Permeation (Fluorkautschuk) + Level 6 (> 480 min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

 $\cdot \textit{For the permanent contact gloves made of the following materials are suitable:} \\$ 

Fluorocarbon rubber (Viton)

Butyl rubber, BR

- · Not suitable are gloves made of the following materials: Natural rubber, NR
- · Eye protection: Goggles recommended during refilling

9.1 Information on basic physical and chemical properties General Information		
Form:	Fluid	
Colour:	Yellow	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	-37 °C	
Initial boiling point and boiling range:	· 155 ℃	
Flash point:	43 °C	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	>290 °C	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product is not explosive. However, formation of explosive a vapour mixtures are possible.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	4 hPa	
Density at 20 °C:	$0.89  \text{g/cm}^3$	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water at 20 °C:	0.133 g/l	
Partition coefficient: n-octanol/water:	2.66 log POW	
Viscosity:		
Dynamic at 20 °C:	0.9 mPas	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 5)

· 9.2 Other information

No further relevant information available.

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Open fire, hot surfaces, high temperatures
- · 10.5 Incompatible materials: oxidants, acids, bases
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity

Toxic if inhaled.

· LD/LC50 values relevant for classification:

#### 97-86-9 isobutyl methacrylate

Oral LD50 11990 mg/kg (Maus)

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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

May cause damage to organs through prolonged or repeated exposure.

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

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 7)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 6)

· 12.6 Other adverse effects No further relevant information available.

## 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.

· European waste catalogue		
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances	
20 01 39	plastics	
20 01 02	glass	

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

SECTION 14: Transport informa	tion
· 14.1 UN-Number · ADR, IMDG, IATA	UN2283
· 14.2 UN proper shipping name · ADR	2283 ISOBUTYL METHACRYLATE, STABILIZE ENVIRONMENTALLY HAZARDOUS
· IMDG	ISOBUTYL METHACRYLATE, STABILIZED, MARII POLLUTANT ISOBUTYL METHACRYLATE, STABILIZED
· 14.3 Transport hazard class(es)	ISOBUTIL METHACKILATE, STABILIZED
· 14.3 Transport nazara ciass(es) · ADR, IMDG	
· Class	3 Flammable liquids. 3
· IATA	
· Class · Label	3 Flammable liquids.
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substance isobutyl methacrylate
· Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · EMS Number:	Warning: Flammable liquids. F-E,S-D

(Contd. on page 8)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

· Stowage Category	(Contd. of page
Slowage Calegory	Л
· 14.7 Transport in bulk according to A	Annex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	(D/E)
· IMDG	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2283 ISOBUTYL METHACRYLATE, STABILIZED, .
· ·	III, ENVIRONMENTALLY HAZARDOUS

## 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

H2 ACUTE TOXIC

El Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 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.

#### · Relevant phrases

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 9)



Printing date 16.03.2017 Version number 1 Revision: 16.03.2017

(Contd. of page 8)

#### · Department issuing SDS:

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### · Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 5: Acute toxicity – Category 5
Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

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