# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

074561072

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

074561007 074561015 074561023 074561031 074561049 074561056 074561064 074561080 074561098 074561106 074561114 074561122 074561130 074561148 074561205 074561213 074561221 074561239 074561247 074561254 074561262 074561270 074561288 074561296 074561304 074561312 074561320 074561338 074561346 074561411 074561429 074561437 074561445 074561452 074561460 074561478 074561486 074561494 074561502 074561510 074561528 074561536 074561544 074561551 074561569 074561577 074561585 074561593 074561601 074561619 074561627 074561635 074561643 074561650 074561668 074561676 074561684 075461007 075461411



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Tel.: +49 (0)800 4372522

#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

#### 1 Identification

- · Product identifier
  - · Trade name: VENUS Pearl

- · Application of the substance / the mixture Dental filling material
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

· Information department:

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com

Emergency telephone number:

Emergency CONTACT (24-Hour-Number) ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

## 2 Hazard(s) identification

Classification of the substance or mixture

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- · Label elements
  - GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

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

 $2-Propenoic \ acid, \ 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl) \\ bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester$ 

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

triethylen glycol dimethacrylate

Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of soap and water.

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

- Classification system
  - NFPA ratings for USA (scale 0-4)



Health = 0Fire = 1 Reactivity = 0

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#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

Trade name: VENUS Pearl

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· HMIS-Ratings (Scale 0-4)



Health = 0 Fire = 1

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

#### 3 Composition/information on ingredients

- Chemical characterization: Mixtures
  - Description: -

	Description	<i>7</i> 11.	
		is components:	
9	45656-78-0	2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl) bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester	10-25%
		Sensitization - Skin 1, H317	
	72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane- 1,16-diyl bismethacrylate	≥0.1-<1%
		Sensitization - Skin 1B, H317	
	109-16-0	triethylen glycol dimethacrylate	≥0.1-<1%
		Sensitization - Skin 1B, H317	

· Additional information For the wording of the listed hazard phrases refer to section 16.

# 4 First-aid measures

- · Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of complaints.
  - After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

- Information for doctor
  - · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents

Use fire fighting measures that suit the environment.

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

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

Trade name: VENUS Pearl

(Contd. of page 2)

- · Advice for firefighters
  - · Protective equipment: No special measures required.
- · Additional information -

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues). Dispose of the collected material according to regulations.

· 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.

#### · Protective Action Criteria for Chemicals

· PAC-1:		
112945-52-5	Amorphous silica	18 mg/m³
	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane 1,16-diyl bismethacrylate	- 120 mg/m <sup>3</sup>
109-16-0	triethylen glycol dimethacrylate	33 mg/m³
2530-85-0	3-trimethoxysilylpropyl methacrylate	71 mg/m³
7775-14-6	sodium dithionite	30 mg/m <sup>3</sup>
579-07-7	1-Phenyl-1,2-propandion	0.4 mg/m³
80-62-6	methyl methacrylate	17 ppm
64-19-7	acetic acid	5 ppm
· PAC-2:		
112945-52-5	Amorphous silica	100 mg/m³
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane- 1,16-diyl bismethacrylate	1,300 mg/m <sup>3</sup>
109-16-0	triethylen glycol dimethacrylate	360 mg/m³
2530-85-0	3-trimethoxysilylpropyl methacrylate	780 mg/m³
7775-14-6	sodium dithionite	330 mg/m³
579-07-7	1-Phenyl-1,2-propandion	4.5 mg/m³
80-62-6	methyl methacrylate	120 ppm
64-19-7	acetic acid	35 ppm
PAC-3:		
112945-52-5	Amorphous silica	630 mg/m³
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane- 1,16-diyl bismethacrylate	7,900 mg/m <sup>3</sup>
109-16-0	triethylen glycol dimethacrylate	2,100 mg/m <sup>3</sup>
2530-85-0	3-trimethoxysilylpropyl methacrylate	4,700 mg/m <sup>3</sup>
7775-14-6	sodium dithionite	2,000 mg/m
579-07-7	1-Phenyl-1,2-propandion	27 mg/m³
		Contd. on page



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#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

Trade name: VENUS Pearl

		(Contd. of page 3)
80-62-6	methyl methacrylate	570 ppm
64-19-7	acetic acid	250 ppm

## 7 Handling and storage

- Handling
  - Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
  - · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
  - · Storage
    - · Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Control parameters
  - Components 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.

Not required

- Additional information: The lists that were valid during the creation were used as basis.
- · 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.

- · Breathing equipment: Not required.
- Protection of hands:

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Check protective gloves prior to each use for their proper condition.

recommended

· Material of gloves

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

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

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

- · Eye protection: Not absolutely necessary.
- · Body protection: Light weight protective clothing

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# Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

Trade name: VENUS Pearl

(Contd. of page 4)

Physical and chemical propert	ies
Information on basic physical and ch General Information	nemical properties
· Appearance:	
··Form:	Pasty
· Color:	Different according to coloring
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	undetermined
· Flash point:	>100 °C (>212 °F)
· Flammability (solid, gaseous)	Not applicable.
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	2.1 g/cm³ (17.5245 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity:	
· dynamic:	Not determined.
· kinematic:	Not determined.
Other information	No further relevant information available.
Ouiei iiiiOiiiiauoii	INO TUTUTET TETEVALIL ITHOTTHALIOH AVAIIANIE.

# 10 Stability and reactivity

- Reactivity No further relevant information available.
  Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
  Incompatible materials: No further relevant information available.
  Hazardous decomposition products: none
- · Additional information: -



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#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

Trade name: VENUS Pearl

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# 11 Toxicological information

- · Information on toxicological effects
  - Acute toxicity:

· L	D/LC5	0 values that are relevant for classification:
72869-8		7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl smethacrylate
Oral		>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
109-16-	0 trietl	hylen glycol dimethacrylate
Oral	LD50	8300 mg/kg (rat)

- Dermal LD50 >2000 mg/kg (mouse) Primary irritant effect:
  - · on the skin: No irritant effect.

  - on the eye: No irritating effect.
    Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    - · Carcinogenic categories
      - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

# 12 Ecological information

· Toxicity

· Aquatic t	oxicity:
	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl pismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)
NOEC / 72h	0.21 mg/l (algae) (OECD 201)
109-16-0 trie	thylen glycol dimethacrylate
EC50/21d	51.9 mg/L (daphnia) (OECD 211)
LC50/96h	16.4 mg/l (fish) (OECD 203)
NOEC / 21d	32 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	18.6 mg/l (algae) (OECD 201)
EbC50 / 72h	72.8 mg/l (algae) (OECD 201)

Persistence and degradability
No further relevant information available.

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#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

Trade name: VENUS Pearl

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#### 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

biodegradability 22 % /28d (not defined) (OECD 301B: ISO/ 9439/ EEC 92/69/V. C.4-C)

109-16-0 triethylen glycol dimethacrylate

biodegradability 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

- Behavior in environmental systems:
  Bioaccumulative potential No further relevant information available.
  - Mobility in soil No further relevant information available.
- · Additional ecological information:
  - General notes: Avoid transfer into the environment.
- · Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- Waste treatment methods
  - Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

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

UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name	V-:-I	
· DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
Packing group		
DOT, ADR, IMDG, IATA	Void	
Environmental hazards:		
· Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:	-	
UN "Model Regulation":	Void	



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#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022

Trade name: VENUS Pearl

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# 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

80-62-6 methyl methacrylate

· Hazardous Air Pollutants

80-62-6 methyl methacrylate

· Proposition 65

Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

80-62-6 methyl methacrylate

E. NL

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H317 May cause an allergic skin reaction.

Date of preparation / last revision 11/16/2022

Abbreviations and acronyms:

ADB: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association
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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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# Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022

Reviewed on 11/16/2022

Trade name: VENUS Pearl

NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Sensitization - Skin 1: Skin sensitisation - Category 1
Sensitization - Skin 1B: Skin sensitisation - Category 1B

\* Data compared to the previous version altered.

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#### Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Tel.: 0800 4372522

#### 1 Identification

- · Product identifier
  - · Trade name: VENUS Pearl
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
  - Application of the substance / the mixture Dental filling material
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Heraeus Kulzer GmbH Grüner Weg 11, D-63450 Hanau

· Information department:

Marc Henn

Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542

e-mail: marc.henn@kulzer-dental.com

· Emergency telephone number:

Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

#### 2 Hazard(s) identification

· Classification of the substance or mixture

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

- · Label elements
  - GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

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

2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester

Hazard statements

May cause an allergic skin reaction.

Precautionary statements

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

Wear protective gloves/protective clothing/eye protection/face protection. Specific treatment (see on this label).

Wash contaminated clothing before reuse.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system

NFPA ratings for USA (scale 0-4)



Health = 0 Fire = 1 Reactivity = 0

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#### Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

#### Trade name: VENUS Pearl

· HMIS-Ratings (Scale 0-4) 0

FIRE 1 REACTIVITY | Reactivity = 0

HEALTH

Health = 0 Fire = 1

Results of PBT and vPvB assessment

PBT: Not applicable.

· vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

Description: -

Dangerous components:

861437-11-8 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl) 10-25% bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester Butyl-hydroxy-toluol < 1%

# 4 First-aid measures

· Description of first aid measures

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

· Extinguishing media

Suitable extinguishing agents

Use fire fighting measures that suit the environment.

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

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· Advice for firefighters

Protective equipment: No special measures required.

· Additional information -

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

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#### Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

#### Trade name: VENUS Pearl

· Environmental precautions:

(Contd. of page 2)

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).

Dispose of the collected material according to regulations.

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.

#### 7 Handling and storage

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
  - Storage Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

· Control parameters

Components 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 that were valid during the creation were used as basis.

· 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.

Breathing equipment: Not required.

Protection of hands:

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

For the permanent contact gloves made of the following materials are suitable: Natural rubber, NR

· Eye protection: Not absolutely necessary.

· Body protection: Light weight protective clothing

# 9 Physical and chemical properties

Information on basic physical and chemical properties General Information

Appearance:

Form:

Color:

Pasty

Different according to coloring · Odor:

Odorless

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#### Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

# Trade name: VENUS Pearl

		(Contd. of page 3
· pH-value:	Not determined.	
· Change in condition · Melting point/Melting · Boiling point/Boiling i	range: undetermined range: > 250 °C (> 482 °F)	
· Flash point:	> 165 °C (> 329 °F)	
Ignition temperature:		
· Decomposition tempe	erature: Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
Density at 20 °C (68 °F):	2.1 g/cm³ (17.525 lbs/gal)	
· Solubility in / Miscibility · Water:	with  Not miscible or difficult to mix	
· Viscosity: · dynamic: · kinematic: · Other information	Not determined. Not determined. No further relevant information available.	

#### 10 Stability and reactivity

- · Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: none
  - Additional information:

#### 11 Toxicological information

- Information on toxicological effects

  - Acute toxicity:
    Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - · Additional toxicological information:
    - · Carcinogenic categories
      - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# 12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.

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Mitsui Chemicals Group

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# Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

#### Trade name: VENUS Pearl

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- · Mobility in soil No further relevant information available.
  - Additional ecological information:
  - · General notes: Avoid transfer into the environment.
- · Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
  - Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

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

· UN-Number		
DOT, ADR, ADN, IMDG, IATA	Void	
The same of the sa	Void	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)	Yold	
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
Packing group	profes (a) (b)	
· DOT, ADR, IMDG, IATA	Void	
Environmental hazards:		
· Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II	of	
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		
UN "Model Regulation":		

# 15 Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

- · TSCA (Toxic Substances Control Act) Medical devices are exempted from TSCA.
- · Cancerogenity categories
  - · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

(Contd. on page 6)

- USA



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#### Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

#### Trade name: VENUS Pearl

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· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling:

2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

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

Wear protective gloves/protective clothing/eye protection/face protection.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 05/12/2015 / -

Abbreviations and acronyms:

ADDreviations 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Investors of Evisting Commercial Chamical Substances

ACGIH: American Conterence of Governmental Industrial Hygienists
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

\* Data compared to the previous version altered.