# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

075217328

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).

075217336 075217377

## Page 1/5

# **Material Safety Data Sheet**

#### acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

- · Product identifier
- · Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)
- · Article number: US050-PC
- · Application of the substance / the preparation Resin-based dental adhesive cement
- · Details of the supplier of the safety data sheet
- · Manufacturer:

Kuraray Noritake Dental Inc.

1621 Sakazu, Kurashiki, Okayama 710-0801,

Japan

#### · Supplier:

Kuraray America, Inc.

33 Maiden Lane, 6th Floor, New York,

NY 10038 U.S.A. Tel: 800-879-1676 Fax: 888-700-5200

Website: www.kuraraydental.com

· Chemical characterization: Single Component

#### · Description:

Monomer for dental resin materials

12-Methacryloyloxydodecylpyridinium bromide (>90wt%)

- · Dangerous components: Void
- · Other ingredients:

10-Methacryloyloxydecyl dihydrogen phosphate

Hydrophobic aromatic dimethacrylate

Hydrophobic aliphatic methacrylate

Silanated silica filler

Colloidal silica

Catalysts

Others

#### · Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- $\cdot$  Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

#### · Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)

## 0

```
\begin{aligned} & Health = 0 \\ & Fire = 0 \\ & Reactivity = 0 \\ & (Contd. \ on \ page \ 2) \\ & USA \\ & Page \ 2/5 \end{aligned}
```

# **Material Safety Data Sheet**

## acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

REACTIVITY 0 0 0 0 Health = 0 Fire = 0 Reactivity = 0

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Suitable extinguishing agents:

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

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.
- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections No dangerous substances are released.
- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a refrigerator (2-8°C).
- · 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.
- · Additional information about design of technical systems: No further data; see item 7.
- · 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.
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment: Not required.

#### · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. (Contd. on page 3)

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# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 2)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## · 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

#### · General Information

# · Appearance:

Form: Pasty Color: White · Odor: Odorless

· pH-value: Not applicable · Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· **Ignition temperature:** Not applicable

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits: Lower: Not applicable **Upper:** Not applicable

· Vapor pressure: Not applicable · **Density:** 2.0 g/cm<sup>3</sup> (16.69 lbs/gal) · Vapour density Not applicable · Solubility in / Miscibility with

Water: Insoluble.

- · Segregation coefficient (n-octonol/water): Not applicable
- · Other information No further relevant information available.

## · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

(Contd. on page 4)

Page 4/5

# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 3)

- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water
- · Waste treatment methods
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.
- · UN-Number
- · DOT, ADR, ADN, IMDG, IATA Void
- · UN proper shipping name
- · 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.

· UN "Model Regulation": -

USA

(Contd. on page 5)

Page 5/5

# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 4)

- · Sara
- · Section 355 (extremely hazardous substances):

All ingredients are listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

All ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

All ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

All ingredients are listed.

· Chemicals known to cause developmental toxicity:

All ingredients are listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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

All ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administation)

All ingredients are listed.

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.

 $\cdot$  Version: 4

USA

Page 1/5

# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

- · Product identifier
- · Trade name: PANAVIA 21; UNIVERSAL PASTE (EX, TC, OP)
- · Article number: US050-PU
- · Application of the substance / the preparation Resin-based dental adhesive cement
- · Details of the supplier of the safety data sheet
- · Manufacturer:

Kuraray Noritake Dental Inc.

1621 Sakazu, Kurashiki, Okayama 710-0801,

Japan

· Supplier:

Kuraray America, Inc.

33 Maiden Lane, 6th Floor, New York,

NY 10038 U.S.A. Tel: 800-879-1676 Fax: 888-700-5200

Website: www.kuraraydental.com

- · Chemical characterization: Single Component
- · Description:

Monomer for dental resin materials

12-Methacryloyloxydodecylpyridinium bromide (>90wt%)

· Dangerous components: Void

· Other ingredients:

Hydrophobic aromatic dimethacrylate
Hydrophobic aliphatic methacrylate
Hydrophilic aliphatic dimethacrylate
Silanated titanium oxide
Silanated barium glass filler
Catalysts
Accelerators
Pigments
Others

· Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- · Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void

(Contd. on page 2)

Page 2/5

# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; UNIVERSAL PASTE (EX, TC, OP)

(Contd. of page 1)

- · Classification system:
- · NFPA ratings (scale 0 4)

## 0

Health = 0Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

REACTIVITY
0
0
0
Health = 0
Fire = 0

Reactivity = 0

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

· Suitable extinguishing agents:

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

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.
- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections No dangerous substances are released.
- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a refrigerator (2-8°C).
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- $\cdot$  Specific end use(s) No further relevant information available.
- · Additional information about design of technical systems: No further data; see item 7.
- · 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.

 $\cdot$  **Additional information:** The lists that were valid during the creation were used as basis. (Contd. on page 3)

USA

Page 3/5

# **Material Safety Data Sheet**

## acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; UNIVERSAL PASTE (EX, TC, OP)

(Contd. of page 2)

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## $\cdot \ Material \ of \ gloves$

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Not required.
- · General Information
- · Appearance:

Form: Pasty Colore: Colored • Odor: Odorless

pH-value: Not applicableChange in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Ignition temperature: Not applicable

· Danger of explosion: Product does not present an explosion hazard.

• Explosion limits: Lower: Not applicable Upper: Not applicable

Vapor pressure: Not applicable
Density: 1.9 g/cm³ (15.856 lbs/gal)
Vapour density Not applicable
Solubility in / Miscibility with

Water: Insoluble.

- Segregation coefficient (n-octonol/water): Not applicable
   Other information No further relevant information available.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

(Contd. on page 4)

Page 4/5

# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; UNIVERSAL PASTE (EX, TC, OP)

(Contd. of page 3)

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water
- $\cdot \ Waste \ treatment \ methods$
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:

- · **Recommendation:** Disposal must be made according to official regulations.
- · UN-Number
- · DOT, ADR, ADN, IMDG, IATA Void
- · UN proper shipping name
- · 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.

(Contd. on page 5)

ÙSA

Page 5/5

## **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/09/2012 Reviewed on 04/01/2012

Trade name: PANAVIA 21; UNIVERSAL PASTE (EX, TC, OP)

(Contd. of page 4)

- · UN "Model Regulation": -
- · Sara
- · Section 355 (extremely hazardous substances):

All ingredients are listed.

 $\cdot$  Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

All ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

All ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

All ingredients are listed.

· Chemicals known to cause developmental toxicity:

All ingredients are listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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

All ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

All ingredients are listed.

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.

· Version: 4



Printing date 08/03/2017 Version 5 Reviewed on 08/03/2017

## 1 Identification

Product identifier

· Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

Article number: US050-PC

• Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture Resin-based dental adhesive cement

· Details of the supplier of the safety data sheet

· Manufacturer:

Kuraray Noritake Dental Inc.

1621 Sakazu, Kurashiki, Okayama 710-0801,

Japan

· Contact information:

Kuraray America, Inc.

33 Maiden Lane, 6th Floor, New York,

NY 10038 U.S.A. Tel: 800-879-1676 Fax: 888-700-5200

Website: www.kuraraydental.com

· Emergency telephone number:

For chemical emergency spill, leak, fire, exposure or accident

Call CHEMTREC day and night

Within USA and Canada: 1-800-424-9300 CCN706984 or

+1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Void
- Other ingredients:

10-Methacryloyloxydecyl dihydrogen phosphate

Hydrophobic aromatic dimethacrylate

Hydrophobic aliphatic dimethacrylate

Silanated silica filler

Colloidal silica

Catalysts

US

(Contd. on page 2)



Printing date 08/03/2017 Version 5 Reviewed on 08/03/2017

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 1)

## 4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: 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:

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

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures See Section 8.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections No dangerous substances are released.

## 7 Handling and storage

- · Handling:
- Precautions for safe handling No special measures required.
- **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: Store in a refrigerator (2-8 °C).
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · 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.

(Contd. on page 3)



Printing date 08/03/2017 Version 5 Reviewed on 08/03/2017

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 2)

- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## · 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

Information on basic physical and	chemical properties
General Information	
Appearance:	_
Form:	Pasty
Color:	White
Odor:	Odorless
pH-value:	Not determined
Change in condition	
Melting point/Melting range:	Not determined
<b>Boiling point/Boiling range:</b>	Not determined
Flash point:	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
Lower:	Not determined
Upper:	Not determined
Oxidizing properties	Not determined
Vapor pressure:	Not determined
Density:	2.0 g/cm <sup>3</sup>
Relative density	Not determined
Vapor density	Not determined
<b>Evaporation rate</b>	Not determined
Solubility in / Miscibility with	
Water:	Insoluble.

(Contd. on page 4)



Printing date 08/03/2017 Version 5 Reviewed on 08/03/2017

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 3)

· Viscosity: Not determined

• **Other information** No further relevant information available.

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · 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: Carbon monoxide and carbon dioxide

# 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eve: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- 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.

## 12 Ecological information

- ·Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- Other adverse effects No further relevant information available.

- IIS

(Contd. on page 5)



Printing date 08/03/2017 Version 5 Reviewed on 08/03/2017

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 4)

## 13 Disposal considerations

- · Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · 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 MARPOL73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	Void

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- Section 355 (extremely hazardous substances):

All ingredients are listed.

Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65
- · Chemicals known to cause cancer:

All ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

All ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

All ingredients are listed.

· Chemicals known to cause developmental toxicity:

All ingredients are listed.

(Contd. on page 6)



Printing date 08/03/2017 Version 5 Reviewed on 08/03/2017

Trade name: PANAVIA 21; CATALYST PASTE (EX, TC, OP)

(Contd. of page 5)

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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

All ingredients are listed.

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

## 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.

· NFPA ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0

\* Data compared to the previous version altered.