

SAFETY DATA SHEETS

This SDS packet was issued with item:

075217336

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).

075217328 075217377

Material Safety Data Sheet

acc. to ISO/DIS 11014

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

· **Product identifier**

· **Trade name:** PANA VIA 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.

· **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

Health = 0

Fire = 0

Reactivity = 0

(Contd. on page 2)

USA

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 ; CATALYST PASTE (EX, TC, OP)

(Contd. of page 1)

· **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.

· **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)

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 ; 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 through 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/cm³ (16.69 lbs/gal)

· **Vapour density** Not applicable

· **Solubility in / Miscibility with**

Water: Insoluble.

· **Segregation coefficient (n-octanol/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

USA

(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.

· **Carcinogenicity 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**

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)

USA

Page 2/5

Material Safety Data Sheet

acc. to ISO/DIS 11014

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

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

(Contd. of page 1)

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

0

Health = 0

Fire = 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.

- **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.

(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

- **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.

- **Eye protection:** Not required.

- **General Information**

- **Appearance:**

Form: Pasty
Color: Colored
· **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:** 1.9 g/cm³ (15.856 lbs/gal)
· **Vapour density** Not applicable
· **Solubility in / Miscibility with**
Water: Insoluble.
· **Segregation coefficient (n-octanol/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)

USA

Page 4/5

Material Safety Data Sheet

acc. to ISO/DIS 11014

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

Trade name: PANA VIA 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

· **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)

USA

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.
- **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 05/01/2016

Reviewed on 05/01/2016

1 Identification of the substance/mixture and of the company/undertaking

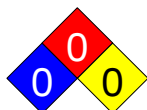
- **Product identifier**
- **Trade name:** PANAVIA 21 ; CATALYST PASTE (EX, TC, OP)
- **Article number:** US050-PC
- **Application of the substance / the preparation** Resin-based dental adhesive cement
- **Details of the supplier of the safety data sheet**
- **Manufacturer:**
Kuraray Noritake Dental Inc.
1621 Sakazu, Kurashiki, Okayama 710-0801,
Japan
- **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

2 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 methacrylate
Silanated silica filler
Colloidal silica
Catalysts
Others

3 Hazards identification

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



Health = 0
Fire = 0
Reactivity = 0

(Contd. on page 2)

USA

Printing date 05/01/2016

Reviewed on 05/01/2016

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

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

4 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.

5 Firefighting measures

- **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.

6 Accidental release measures

- **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.

7 Handling and storage

- **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.

8 Exposure controls/personal protection

- **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)

USA

Printing date 05/01/2016

Reviewed on 05/01/2016

Trade name: PANA VIA 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

9 Physical and chemical properties

- **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/cm³ (16.69 lbs/gal)

- **Vapour density** Not applicable

- **Solubility in / Miscibility with**

Water: Insoluble.

- **Segregation coefficient (n-octanol/water):** Not applicable

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

10 Stability and reactivity

- **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

-USA-

(Contd. on page 4)

Printing date 05/01/2016

Reviewed on 05/01/2016

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

(Contd. of page 3)

11 Toxicological information

- **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.

12 Ecological information

- **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

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.

14 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 II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

USA

(Contd. on page 5)

Printing date 05/01/2016

Reviewed on 05/01/2016

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

(Contd. of page 4)

15 Regulatory information

· 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.

· **Carcinogenicity 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.

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.

· **Version: 4**

USA