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

Printing date 02/05/2015 Reviewed on 02/04/2015

## 1 Identification

· **Product identifier**

· **Trade name: PANAVIA SA Cement Plus Automix, PANAVIA SA Cement Plus Handmix**

· **Article number:** US-190, US205
· **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

## 2 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

| · **Dangerous components:** | | |
|---|---|---|
| 1565-94-2 | bisphenol A diglycidylmethacrylate<br>Skin Irrit. 2, H315; Eye Irrit. 2A, H319 | 3-15% |
| 109-16-0 | triethylene glycol dimethacrylate<br>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 | 3-15% |
| 868-77-9 | 2-hydroxyethyl methacrylate<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 3-15% |
| 7681-49-4 | sodium fluoride<br>Acute Tox. 3, H301; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | <1% |

· **Other ingredients:**
Silanated barium glass filler
Silanated colloidal silica
10-Methacryloyloxydecyl dihydrogen phosphate
Hydrophobic aromatic dimethacrylate
Hydrophobic aliphatic dimethacrylate
dl-Camphorquinone
Peroxide
Accelerators
Catalysts
Pigments

## 3 Hazard(s) identification

· **Classification of the substance or mixture**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)

kuraray

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

Printing date 02/05/2015 Reviewed on 02/04/2015

**Trade name: PANAVIA SA Cement Plus Automix, PANAVIA SA Cement Plus Handmix**

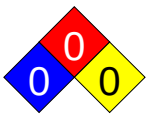
(Contd. of page 1)

· **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-hydroxyethyl methacrylate
· **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
· **Precautionary statements**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see on this label). |
| P362 | Take off contaminated clothing and wash before reuse. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

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




Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**




Health = 0
Fire = 0
Reactivity = 0

## 4 First-aid measures

· **General information:**
Avoid contact with eyes.
Avoid contact with skin.
· **After inhalation:**
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:** If symptoms persist consult doctor.

## 5 Fire-fighting 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.

(Contd. on page 3)

kuraray

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

Printing date 02/05/2015 Reviewed on 02/04/2015

**Trade name: PANAVIA SA Cement Plus Automix, PANAVIA SA Cement Plus Handmix**

(Contd. of page 2)

· **Protective equipment:** Wear fully protective suit.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:** Pick up mechanically.
· **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** No special precautions are necessary if used correctly.
· **Information about protection against explosions and fires:** No special measures required.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location (2-25 °C).
· **Information about storage in one common storage facility:**
Store away from oxidizing agents.
Store away from reducing agents.
· **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.

| · **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **7681-49-4 sodium fluoride** | |
| PEL | Long-term value: 2.5 mg/m³<br>as F |
| REL | Long-term value: 2.5 mg/m³<br>as F |
| TLV | Long-term value: 2.5 mg/m³<br>as F, BEI |

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



Protective gloves

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.

(Contd. on page 4)

kuraray

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

Printing date 02/05/2015 Reviewed on 02/04/2015

**Trade name: PANAVIA SA Cement Plus Automix, PANAVIA SA Cement Plus Handmix**

(Contd. of page 3)

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:** Goggles recommended during refilling.

## 9 Physical and chemical properties

| | |
|---|---|
| · **General Information** | |
| · **Appearance:** | |
| **Form:** | Pasty |
| **Color:** | Coloured |
| · **Odor:** | Odorless |
| · **Odour threshold:** | Not determined. |
| · **pH-value:** | Not applicable. |
| · **Change in condition** | |
| **Melting point/Melting range:** | Undetermined. |
| **Boiling point/Boiling range:** | Undetermined. |
| · **Flash point:** | Not applicable |
| · **Flammability (solid, gaseous):** | Not determined. |
| · **Ignition temperature:** | |
| **Decomposition temperature:** | Not determined. |
| · **Danger of explosion:** | Product does not present an explosion hazard. |
| · **Explosion limits:** | |
| **Lower:** | Not determined. |
| **Upper:** | Not determined. |
| · **Vapor pressure:** | Not applicable. |
| · **Density:** | (Automix) 1.8 g/cm³<br>(Handmix) 1.9 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. |
| **Organic solvents:** | 0.0 % |
| · **Other information** | No further relevant information available. |



(Contd. on page 5)

kuraray

# Safety Data Sheet
acc. to OSHA HCS

Printing date 02/05/2015 Reviewed on 02/04/2015

**Trade name: PANAVIA SA Cement Plus Automix, PANAVIA SA Cement Plus Handmix**

(Contd. of page 4)

## 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

## 11 Toxicological information

· **Acute toxicity:**

| · **LD/LC50 values that are relevant for classification:** | | |
|---|---|---|
| **868-77-9 2-hydroxyethyl methacrylate** | | |
| Oral | LD50 | 4680 mg/kg (guinea pig)<br>3275 mg/kg (mouse)<br>5050 mg/kg (rat) |

· **Primary irritant effect:**
· **on the skin:** Irritating effect
· **on the eye:** Irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **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

· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (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.

## 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

kuraray

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

Printing date 02/05/2015 Reviewed on 02/04/2015

**Trade name: PANAVIA SA Cement Plus Automix, PANAVIA SA Cement Plus Handmix**

(Contd. of page 5)

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

## 14 Transport information

| | |
|---|---|
| · **UN-Number**<br>· **DOT, ADR, ADN, IMDG, IATA** | Void |
| · **UN proper shipping name**<br>· **DOT, ADR, ADN, IMDG, IATA** | Void |
| · **Transport hazard class(es)**<br>· **DOT, ADR, ADN, IMDG, IATA**<br>· **Class** | Void |
| · **Packing group**<br>· **DOT, ADR, IMDG, IATA** | Void |
| · **Environmental hazards:**<br>· **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":** | - |

## 15 Regulatory information

· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

· **Proposition 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)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

(Contd. on page 7)

kuraray

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

Printing date 02/05/2015 Reviewed on 02/04/2015

**Trade name: PANAVIA SA Cement Plus Automix, PANAVIA SA Cement Plus Handmix**

(Contd. of page 6)

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

None of the ingredients is 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:** 1
· **Relevant phrases**
H301 Toxic if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
· **Date of preparation / last revision** 02/05/2015 / -
· **Abbreviations and acronyms:**
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3