

Printing date 09/30/2008 Reviewed on 10/01/2008

1 Identification of substance

· Product details

· Trade name: PANAVIA F 2.0; OXYGUARD I

· Article number: US071

· Application of the substance / the preparation Dental material for curing promotion and surface protection

· Manufacturer:

Kuraray Medical Inc.

1621 Sakazu, Kurashiki, Okayama 710-0801,

Japan

· Supplier:

Kuraray America, Inc.

600 Lexington Avenue, 26th Floor, New York,

NY 10022 U.S.A. Tel: 800-879-1676 Fax: 888-700-5200

Website: www.kuraraydental.com
• Information department: Supplier

2 Composition/Data on components

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

· Dangerous	components:
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56-81-5	glycerol	50-70%
25322-68-3	Polyethylene glycol	20-40%

Other ingredients:

Catalysts

Accelerators

Dyes

Others

3 Hazards identification

- · Hazard description: Not applicable.
- · Information pertaining to particular dangers for man 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.

· NFPA ratings (scale 0 - 4)

Health = 0

Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = 0Fire = 1

Reactivity = 0

· GHS label elements

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.

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· After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- · Measures for environmental protection:

Dilute with plenty of water.

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

· Measures for cleaning/collecting:

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

· Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information 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.

8 Exposure controls and 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:

56-81-5 glycerol

	15* 5** mg/m³
	*total dust **respirable fraction
TLV	10 ppm

- · 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. 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.

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· 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.

Physical and chemical propert	ies
· General Information	
Form:	Gel
Color:	Green
Odor:	Odorless
· Change in condition	
Melting point/Melting range:	18.2 °C (glycerol)
Boiling point/Boiling range:	290 °C (glycerol)
· Flash point:	160 °C (glycerol)
· Ignition temperature:	400.0 °C (glycerol)
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	0.9 Vol % (glycerol)
Upper:	Not applicable
· Vapor pressure:	0.1 hPa (20°C, glycerol)
· Density:	Not determined.
· Vapour density	Not applicable
· Solubility in / Miscibility with	
Water:	Fully miscible.
· pH-value:	Not applicable
· Segregation coefficient (n-octonol/wa	ater): Not applicable

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · Dangerous reactions No dangerous reactions known.
- · Dangerous products of decomposition: Carbon monoxide and carbon dioxide

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:

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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

· 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

- · Product:
- · Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border):
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -
- · UN "Model Regulation": -

15 Regulations

- · 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.

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· Chemicals known to cause developmental toxicity:

None of the ingredients is 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.

· NTP (National Toxicology Program)

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)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

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: 2

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des merchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

USA