

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 09/14/2023

Version 4

Reviewed on 09/14/2023

**1 Identification**

- **Product identifier**
- **Trade name:** CARIES DETECTOR
- **Article number:** CA043
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Dental material
- **Details of the supplier of the safety data sheet**
- **Supplier**  
Kuraray America, Inc.  
32 Old Slip, 7th Floor, New York,  
NY 10005 U.S.A.  
Tel: 800-879-1676  
Website: www.kuraraydental.com
- **Further information obtainable from:** Supplier
- **Emergency telephone number:**  
CHEMTREC; day and night, within USA and Canada  
1-800-424-9300 CCN706984 or +1 703-527-3887 (collect calls accepted)

**2 Hazard identification**

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonized System (GHS).

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- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards** Avoid breathing sanding dust / swarf.

**3 Composition/Information on ingredients**

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Other ingredients:**  
Propane-1,2-diol  
Dyes

**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.
- **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.

CA

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## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **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:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 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 cool location (2-25°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

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

### 57-55-6 Propane-1,2-diol

|    |   |
|----|---|
| EV | Long-term value: 155* 10** mg/m <sup>3</sup> , 50* ppm<br>*vapour and aerosol; **aerosol only |
|----|---|

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

- **Exposure controls**

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

- **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.

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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:** Safety glasses

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

|   |                                  |
|---|----------------------------------|
| · <b>Physical state</b>                           | Liquid                           |
| · <b>Color:</b>                                   | Red                              |
| · <b>Odor:</b>                                    | Odorless                         |
| · <b>Melting point/Melting range:</b>             | -68 °C (propane-1,2-diol)        |
| · <b>Boiling point/Boiling range:</b>             | 185 °C (propane-1,2-diol)        |
| · <b>Flammability (solid, gaseous):</b>           | Not determined.                  |
| · <b>Explosion limits:</b>                        |                                  |
| · <b>Lower:</b>                                   | 2.6 Vol % (propane-1,2-diol)     |
| · <b>Upper:</b>                                   | 12.6 Vol % (propane-1,2-diol)    |
| · <b>Flash point:</b>                             | 101 °C (propane-1,2-diol)        |
| · <b>Auto ignition temperature:</b>               | 371 °C (propane-1,2-diol)        |
| · <b>Decomposition temperature:</b>               | Not determined                   |
| · <b>pH-value at 20 °C:</b>                       | 5.0~6.0                          |
| · <b>Viscosity:</b>                               | Not determined                   |
| · <b>Kinematic viscosity</b>                      | Not determined.                  |
| · <b>Solubility in / Miscibility with</b>         |                                  |
| · <b>Water:</b>                                   | Fully miscible.                  |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                  |
| · <b>Vapor pressure:</b>                          | 0.1 hPa (20°C, propane-1,2-diol) |
| · <b>Density:</b>                                 | Not determined                   |
| · <b>Relative density</b>                         | Not determined                   |
| · <b>Relative vapor density</b>                   | Not determined.                  |

· **Other information**

· **Important information on protection of health and environment, and on safety.**

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

**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.

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· **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure**  
Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**

· **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.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** 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**

- **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/TDG, IMDG, IATA** Void

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|   |                 |
|---|-----------------|
| · <b>UN proper shipping name</b><br>· <b>DOT/TDG, IMDG, IATA</b>                  | Void            |
| · <b>Transport hazard class(es)</b><br>· <b>DOT, IMDG, IATA</b><br>· <b>Class</b> | Void            |
| · <b>Packing group</b><br>· <b>DOT/TDG, IMDG, IATA</b>                            | Void            |
| · <b>Environmental hazards:</b><br>· <b>Marine pollutant:</b>                     | No              |
| · <b>Special precautions for user</b>   | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>  | Not applicable. |
| · <b>UN "Model Regulation":</b>   | Void            |

### 15 Regulatory information

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

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

57-55-6 | Propane-1,2-diol

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

57-55-6 | Propane-1,2-diol

### 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.

· **Abbreviations and acronyms:**

DOT: US Department of Transportation

ELINCS: European List of Notified Chemical Substances

· **\* Data compared to the previous version altered.**