

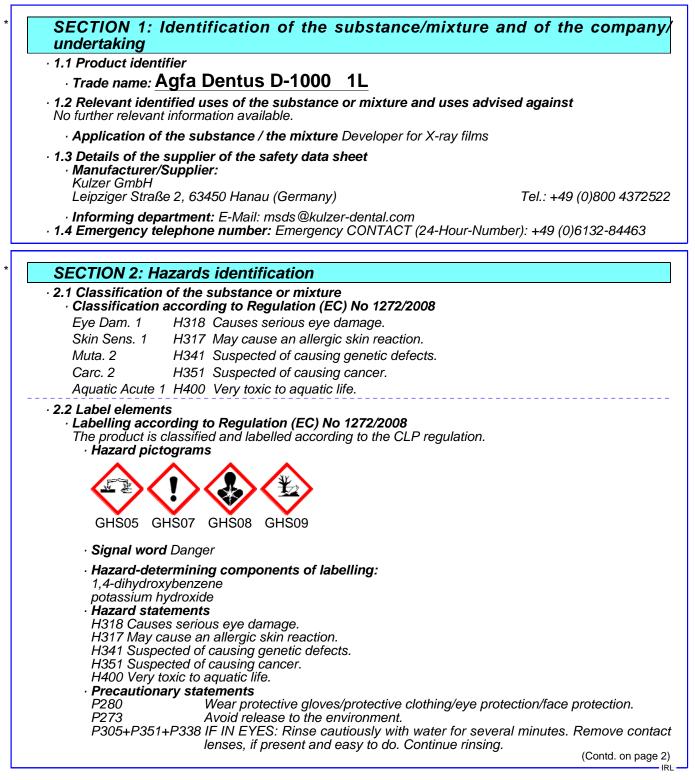
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IF exposed or concerned: Get medical advice/attention.

P308+P313 • **2.3 Other hazards -**

#### · Results of PBT and vPvB assessment

· PBT: Not applicable.

• vPvB: Not applicable.

SECTION 3: Composition/information on ingredients				
3.2 Chemical characterisation: Mixtures     Description: -     Dangerous components:				
CAS: 123-31-9	1,4-dihydroxybenzene Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317	0-5%		
CAS: 111-46-6 EINECS: 203-872-2	2,2'-oxybisethanol Acute Tox. 4, H302	0-5%		
CAS: 2654-57-1 EINECS: 220-180-6	4-methyl-1-phenyl-3-pyrazolidone Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317	< 1%		
<ul> <li>Additional information For the wording of the listed hazard phrases refer to section 16.</li> </ul>				

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- After inhalation
- Supply fresh air.

Seek medical treatment in case of complaints.

- After skin contact If skin irritation continues, consult a doctor.
- · After eye contact
- Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water. Seek medical treatment.

In case of persistent symptoms consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

· Suitable extinguishing agents

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

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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· 5.3 Advice for firefighters

Protective equipment: No special measures required.
 Additional information -

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Dispose of contaminated material as waste according to item 13. Send for recovery or disposal in suitable containers.
- **6.4 Reference to other sections** See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Wear protective equipment. Keep unprotected persons away. Keep containers tightly sealed.

Please observe the additional instructions in the product's instructions for use.

• Information about protection against explosions and fires: The product is not flammable

· 7.2 Conditions for safe storage, including any incompatibilities

#### · Storage

- · Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility:
- Do not store together with oxidising and acidic materials.
- · Further information about storage conditions: Protect from heat and direct sunlight.
- · 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

123-31-9 1,4-dihydroxybenzene

OEL () 0.5 mg/m<sup>3</sup>

111-46-6 2,2'-oxybisethanol

OEL () 100 mg/m<sup>3</sup>, 23 ppm

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

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(Contd. of page 3) 8.2 Exposure controls · Personal protective equipment General protective and hygienic measures Avoid contact with the eyes. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Breathing equipment: Filter A/P2. Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization. Check protective gloves prior to each use for their proper condition. recommended 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. For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Butyl rubber, BR Nitrile rubber, NBR · Eye protection: Tightly sealed safety glasses. · Body protection: Light weight protective clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information Appearance: Form: Liquid · Colour: Colourless · Smell: Odourless · Odour threshold: Not determined. · pH-value at 20 °C: 11.4 · Change in condition <0 °C · Melting point/Melting range: · Boiling point/Boiling range: >100 °C (Contd. on page 5) IRI



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· Flash point:	Not applicable	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:		
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
<ul> <li>Critical values for explosion:</li> <li>Lower:</li> <li>Upper:</li> </ul>	Not determined. Not determined.	
<ul> <li>Steam pressure at 20 °C:</li> </ul>	23 hPa	
<ul> <li>Density at 20 °C</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.275 g/cm <sup>3</sup> Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Fully miscible	
· Partition coefficient (n-octanol/w	ater): Not determined.	
<ul> <li>Viscosity:</li> <li>dynamic:</li> <li>kinematic:</li> <li>9.2 Other information</li> </ul>	Not determined. Not determined. No further relevant information available.	

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- · Conditions to be avoided: No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions Reacts with strong acids and oxidizing agents
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None

## **SECTION 11: Toxicological information**

#### · 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

123-31-9 1,4-dihydroxybenzene

Oral LD50 320 mg/kg (rat)

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#### **111-46-6 2,2'-oxybisethanol** Oral LD50 12565 mg/kg (rat)

Dermal LD50 11890 mg/kg (rabbit)

#### · Primary irritant effect:

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
   Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Muta. 2, Carc. 2
  - Germ cell mutagenicity
    - Suspected of causing genetic defects.
  - · Carcinogenicity
  - Suspected of causing cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

Aquatic toxicity:

#### 123-31-9 1,4-dihydroxybenzene

LC50/96h 0.11-0.64 mg/l (fish)

· 12.2 Persistence and degradability No further relevant information available.

- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

#### · Additional ecological information:

- · General notes:
  - Avoid transfer into the environment.
- Very toxic for aquatic organisms

#### · 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

Recommendation

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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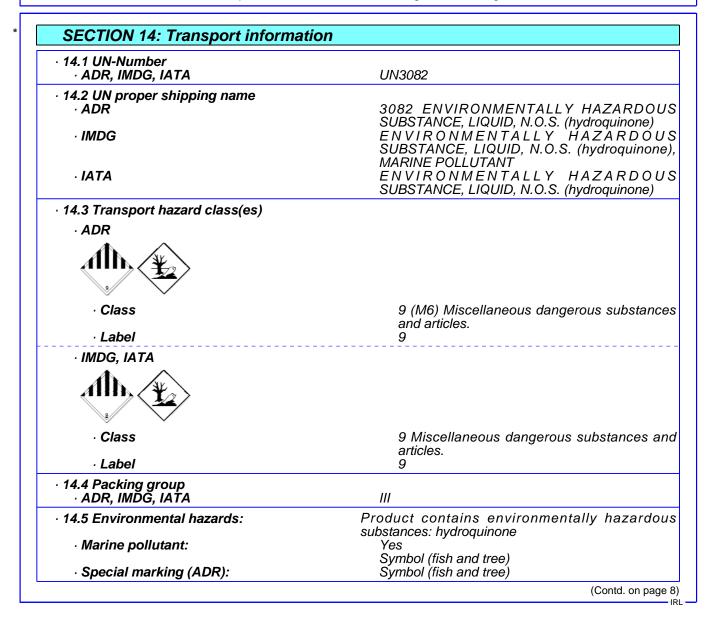
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#### · European waste catalogue

09 01 01\* water-based developer and activator solutions

#### · Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.





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· Special marking (IATA):	Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> </ul>	Warning: Miscellaneous dangerous substances and articles.
Kemler Number:     EMS Number:	90 F-A,S-F
<ul> <li>14.7 Transport in bulk according to Annex Marpol and the IBC Code</li> </ul>	<i>Il of</i> Not applicable.
· Transport/Additional information:	-
· ADR · Transport category · Tunnel restriction code	3 E
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone), 9 III

**SECTION 15: Regulatory information** 

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

#### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eve damage. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. · 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) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative (Contd. on page 9)



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Acute Tox. 4: Acute toxicity – Category 4 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 • \* Data compared to the previous version altered.