

# Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018

Version number 3

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Hazardous according to criteria of Australian Safety and Compensation Council.

#### 1 Identification · Product identifier Trade name: Agfa Dentus D-1000 1L · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Developer for X-ray films · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Kulzer Australia Pty Ltd 11 – 21 Underwood Rd HOMEBUSH NSW 2140 Tel: +61 (0) 2 9764 5222 Australia · Informing department: see above · Emergency telephone number: Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766 2 Hazard(s) Identification · Classification of the substance or mixture Acute Tox. 4 H302 Harmful if swallowed. Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. Muta. 2 Carc. 2 H351 Suspected of causing cancer. · Label elements GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). · Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger Hazard-determining components of labelling: potassium carbonate 1,4-dihydroxybenzene 2,2'-oxybisethanol 4-methyl-1-phenyl-3-pyrazolidone · Hazard statements Harmful if swallowed. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. Precautionary statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves / eye protection / face protection. (Contd. on page 2)



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(Contd. of page 1) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Store locked up. • Other hazards -• Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

Description: -

Dangerous components:		
CAS: 584-08-7	potassium carbonate	5-10%
	Acute Tox. 3, H301; Eye Irrit. 2A, H319	
CAS: 123-31-9	1,4-dihydroxybenzene	0-5%
EINECS: 204-617-8	Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 111-46-6	2,2'-oxybisethanol	0-5%
EINECS: 203-872-2	Acute Tox. 4, H302	
CAS: 2654-57-1	4-methyl-1-phenyl-3-pyrazolidone	< 1%
EINECS: 220-180-6	Acute Tox. 3, H301; Skin Sens. 1, H317	
· Additional inform	mation For the wording of the listed hazard phrases refer to section 16.	

## 4 First Aid Measures

#### · 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.

- Information for 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.

## 5 Fire Fighting Measures

#### · Extinguishing media

## Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. **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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- · Advice for firefighters
- Protective equipment: No special measures required.
- · Additional information -

## 6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
   Environmental precautions: Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil.
   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.
  - **Reference to other sections** See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

## 7 Handling and Storage

·Handling

- 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

## · 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.
- Specific end use(s) No further relevant information available.

# 8 Exposure controls and personal protection • Additional information about design of technical systems: No further data; see item 7. • Control parameters • Components with critical values that require monitoring at the workplace: • 123-31-9 1,4-dihydroxybenzene • NES (Australia) NES (Australia) 2 mg/m³ PEL (USA) 2 mg/m³ REL (USA) Short-term value: C 2\* mg/m³ TLV (USA) 1 mg/m³ SEN (Contd. on page 4)

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(Contd. of page 3) 111-46-6 2,2'-oxybisethanol NES (Australia) 100 mg/m<sup>3</sup>, 23 ppm WEEL (USA) 10 mg/m<sup>3</sup> · Additional information: The lists that were valid during the compilation were used as basis. 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 · Eve protection: Tightly sealed safety glasses. • Body protection: Light weight protective clothing 9 Physical and Chemical Properties · Information on basic physical and chemical properties General Information · Appearance: Form: Liquid · Colour: Colourless · Smell: Odourless Not determined. · Odour threshold: · pH-value at 20 ℃: 11,4 · Change in condition • Melting point/freezing point: <0 °C Initial boiling point and boiling range: >100  $^{\circ}$ C (Contd. on page 5)



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· Flash point:	Not applicable	
<ul> <li>Inflammability (solid, gaseous)</li> </ul>	Not applicable.	
<ul> <li>Ignition temperature:</li> </ul>		
· Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Critical values for explosion: Lower: Upper:	Not determined. Not determined.	
<ul> <li>Steam pressure at 20 °C:</li> </ul>	23 hPa	
Density at 20 °C Relative density Vapour density Evaporation rate	1,275 g/cm <sup>3</sup> Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Fully miscible	
· Partition coefficient: n-octanol/wa	ater: Not determined.	
Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.	

## 10 Stability and Reactivity

· Reactivity No further relevant information available.

Chemical stability

Conditions to be avoided: No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions Reacts with strong acids and oxidizing agents
- Conditions to avoid No further relevant information available.
   Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None

## **11 Toxicological Information** Information on toxicological effects Acute toxicity

LD/LC50 values that are relevant for classification:

123-31-9 1,4-dihydroxybenzene

- Oral LD50 320 mg/kg (rat)
- 111-46-6 2,2'-oxybisethanol

Oral LD50 12565 mg/kg (rat)

Dermal LD50 11890 mg/kg (rabbit)

Primary irritant effect:

- Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation Irritant effect.

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 Respiratory or skin sensitisation Sensitization possible by skin contact.
 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Muta. 2, Carc. 2

· Aquatic toxicity:			
123-31-9 1,4-dihydroxybenzene			
LC50/96h 0.11-0.64 mg/l (fish)			
· Persistence and degradability No	further relevant information available		
· Behaviour in environmental syste	ms:		
· Bioaccumulative potential No f	further relevant information available.		
Mobility in soil No further releva			
<ul> <li>Additional ecological information General notes:</li> </ul>			
Avoid transfer into the environme	port		
Very toxic for aquatic organisms	····		
<ul> <li>Results of PBT and vPvB assessment</li> </ul>	nent		
• <b>PBT:</b> Not applicable.			
vPvB: Not applicable. Other adverse effects No further re	lovent information evallable		
	erevant inituttitation avaliable.		
2 Disposal considerations			
B Disposal considerations • Waste treatment methods • Recommendation			
Waste treatment methods Recommendation Disposal must be made accordin Must not be disposed of together system.	g to official regulations. r with household garbage. Do not allow product to reach sev		
<ul> <li>Waste treatment methods</li> <li>Recommendation</li> <li>Disposal must be made accordin</li> <li>Must not be disposed of together</li> <li>system.</li> <li>Uncleaned packagings:</li> </ul>	g to official regulations. r with household garbage. Do not allow product to reach sev st be made according to official regulations.		
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Waste treatment methods     Recommendation     Disposal must be made accordin Must not be disposed of together system.     Uncleaned packagings:     Recommendation: Disposal mu     Transport information     UN-Number	r with household garbage. Do not allow product to reach sev st be made according to official regulations.		
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<ul> <li>Transport hazard class(es)</li> </ul>	
ADG	
· Class	9 (M6) Miscellaneous dangerous substanc
· Class	and articles.
· Label	9
· IMDG, IATA	
· Class	9 Miscellaneous dangerous substances a articles.
· Label	9
· Packing group · ADG, IMDG, IATA	<i>III</i>
Environmental hazards:	Product contains environmentally hazardo substances: hydroquinone
· Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADG): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>Special precautions for user</li> </ul>	Warning: Miscellaneous dangerous substances a articles.
· Kemler Number:	90
EMS Number:	F-A,S-F
<ul> <li>Transport in bulk according to Annex Marpol and the IBC Code</li> </ul>	II of Not applicable.
· Transport/Additional information:	-
ADG	
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 E
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDO SUBSTANCE, LIQUID, N.O.S. (hydroquinone), 9, III

## 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements

GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). (Contd. on page 8) AUS



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(Contd. of page 7) Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labelling: potassium carbonate 1,4-dihydroxybenzene 2,2'-oxybisethanol 4-methyl-1-phenyl-3-pyrazolidone Hazard statements Harmful if swallowed. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. Precautionary statements Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves / eve protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Store locked up. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 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** 

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H341 Suspected of causing genetic defects.

# H351 Suspected of causing cancer. 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 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, bloaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

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Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity – Category 2 • \* **Data compared to the previous version altered.** 

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