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**1** Identification of the substance/preparation and of the company/undertaking

- · Product details
- Trade name: MC Developer
- Article number: APMC20, APMC21, APMC29
- Application of the substance / the preparation Photographic black and white developer concentrateat Manufacturer/Supplier:
- compard KG
- Mercatorstraße 65
- D-21502 Geesthacht

Germany

- Further information obtainable from: Productmanagement, Tel.: + 49 4152 1392-844
- Information in case of emergency: Telefon : + 49 4152 1392-844

#### 2 Composition/information on ingredients

#### $\cdot$ Chemical characterization

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 584-08-7	potassium carbonate	Xi; R 36/38	12,8%
EINECS: 209-529-3			
CAS: 64-02-8	tetrasodium ethylenedia-	Xn; R 22	3,7%
EINECS: 200-573-9	minetetraacetate		
CAS: 123-31-9	1,4-dihydroxybenzene	Carc. Cat. 3, Muta. Cat. 3; Xn, N; R 22-	2,2%
EINECS: 204-617-8		40-41-43-68-50	

• Additional information: For the wording of the listed risk phrases refer to section 16

# **3 Hazards identification**

#### • Hazard description::



Xn Harmful

# • Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculat ion procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36 Irritating to eyes.

- R 40 Limited evidence of a carcinogenic effect.
- R 43 May cause sensitisation by skin contact.

R 68 Possible risk of irreversible effects.

#### • Classification system:

The classification is according to the latest edit ions of the EU-lists, and extended by company and literature data.



# Printing date: 12.06.2009 Reviewed on: 15.05.2006

# Material Safety Data Sheet According to 91/155 EEC

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#### • Trade name: MC Developer

4 First aid measures	
• After inhalation:	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place pati ent stably in side position for transportation.
• After skin contact:	Immediately wash with water and soap and rinse thoroughly.
• After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
• After swallowing:	If symptoms persist consult doctor.

5 Fire-fighting measures	
• Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
• Protective equipment:	No special measures required.

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<b>6</b> Accidental	release	measures	
0 I icclucificat	reicuse	measures	

<ul> <li>Person-related safety precautions:</li> <li>Measures for environmental protection:</li> </ul>	Not required. Dilute with plenty of water. Do not allow to enter
• Measures for cleaning/collecting: Absor	sewers/ sur face or ground water. b with liquid-binding material (sand, diatomite, acid binders,
univer	rsal binders, sawdust). Dispose contaminated material as waste ling to item 13.

#### 7 Handling and storage

· Handling:	
<ul> <li>Information for safe handling:</li> </ul>	No special measures required.
• Information about fire - and explosion protection:	No special measures required.
• Storage:	
5	
· Requirements to be met by storerooms and receptacle	s: No special requirements.

Not required.

Keep container tightly sealed.

• Information about storage in one common storage facility:

• Further information about storage conditions:

# 8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace:
- 123-31-9 1,4-dihydroxybenzene

WEL Short-term value: 0,5 mg/m<sup>3</sup>

- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment:
- · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

# COMPARD

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Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

• **Respiratory protection:** Not required.

# • Protection of hands:



Protective gloves

The glove material has to be impermeable and resi stant to the product/ the substance/ the preparation. Due to missing tests no recommendat ion 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 al so 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:



Tightly sealed goggles

# 9 Physical and chemical properties

· · General Information	Form:	Fluid	
	Colour::	According to produ	ct specification
	<b>Odour:</b>	Characteristic	
<ul> <li>Change in condition</li> </ul>	Melting poir	nt/Melting range:	Undetermined.
	<b>Boiling poin</b>	t/Boiling range:	100°C
<ul> <li>Flash point:</li> </ul>	Not applicable.		
· Self-igniting:	Product is not selfigr	niting.	
<ul> <li>Danger of explosion:</li> </ul>	Product does not pre	sent an explosion haz	ard.
• Vapour pressure at 20°C:	23 hPa		
• Density at 20°C:	1,375 g/cm <sup>3</sup>		
Solubility in / Miscibility with water: Fully miscible.			
• pH-value at 20°C:	11,7		
• Viscosity:	Kinematic at 20°C:	11 s (DIN 53211/4)	
<ul> <li>Solvent content:</li> </ul>	Organic solvents:: 0,	0 %	
	Water: 60,4 %		
<ul> <li>Solids content:</li> </ul>	39,6 %		



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**10 Stability and reactivity** 

• Thermal decomposition / conditions to be avoided:

• Dangerous reactions No dangerous reactions known.

No decomposition if used according to specifications.

· Dangerous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

• Acute toxicity:

· LD/LC50 values relevant for classification:		
123-31-9 1,4-dihydroxybenzene		
Oral	LD50	320 mg/kg (rat)

• Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.

#### · Additional toxicological information:

The product shows the fol lowing dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: **Irritant** 

#### **12 Ecological information**

#### • General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value i s considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.



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# **13 Disposal considerations**

- Product:
- Recommendation: Must not be disposed together with household garbage. Do not al low product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

#### **14 Transport information**

#### • Land transport ADR/RID (cross-border):



· ADR/RID:	8 (C5) Corrosive substances
• Danger code (Kemler):	80
• UN-Number:	1719
<ul> <li>Packaging group:</li> </ul>	III
• Hazard label:	8
<ul> <li>Description of goods:</li> </ul>	1719 CAUSTIC ALKALI LI

1/1/
III
8
1719 CAUSTIC ALKALI LIQUID, N.O.S.
(potassium carbonate solution)

#### • Maritime transport IMDG:

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· IMDG:	8
• UN-Number:	1719
• Label	8
<ul> <li>Packaging group:</li> </ul>	III
• Marine pollutant:	No
• Proper shipping name:	CAUSTIC ALKALI LIQUID, N.O.S.
	(potassium carbonate solution)

#### • Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA-Klasse: -• UN/ID-Nummer: 1719 • Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (potassium carbonate solution)



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#### · Trade name: MC Developer

# **15 Regulatory information**

#### · Labelling according to EU guidelines:

The product has been classi fied and marked in accordance with EU Direct ives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product: Xn Harmful
- Hazard-determining components of labelling: 1,4-dihydroxybenzene

#### · Risk phrases:

- ses: 36 Irritating to eyes.
  - 40 Limited evidence of a carcinogenic effect.
  - 43 May cause sensitisation by skin contact.
  - 68 Possible risk of irreversible effects.

#### • Safety phrases:

- 2 Keep out of the reach of children.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

#### • National regulations:

Class	Share in %
Water	60,4
Ι	2,2

# **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.

- Relevant R-phrases
  22 Harmful if swallowed.
  36/38 Irritating to eyes and skin.
  40 Limited evidence of a carcinogenic effect.
  41 Risk of serious damage to eyes.
  43 May cause sensitisation by skin contact.
  50 Very toxic to aquatic organisms.
  - 68 Possible risk of irreversible effects.