

## Material Safety Data Sheet According to 1907/2006/EC, Article 31

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

- **Product details**
- **Trade name:** C41 digibase film developer READY TO USE
- **Article number:** RDC19, RDC20
- **Application of the substance / the preparation** Photographic color-developer concentrat
- **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

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

• <b>Dangerous components:</b>			
CAS: 25646-77-9 EINECS: 247-162-0	P-PHENYLENEDIAMINE DERIVATIVE	Xi R36/38	< 1 %
CAS: 584-08-7 EINECS: 209-529-3	POTASSIUM CARBONATE	Xi; R36	< 1 %
CAS: 10039-54-0 EINECS: 233-118-8	HYDROXYLAMINE SULPHATE	Xn; R22-48/22 Xi; R36/38 R43, N; R50	< 1 %
CAS: 7732-18-5 EINECS: 231-791-2	WATER	-	98-99 %

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

### 3 Hazards identification

- **Label elements**
- **Labelling according to EU guidelines:** The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Risk phrases:** 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:** 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **Special labelling of certain preparations:** Contains Hydroxylamine sulphate / bis(hydroxylammonium) sulphate, p-Phenylenediamine derivate/ (4- ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate (CD-4); Colour Developer;. May produce an allergic reaction.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient 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:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Inform respective authorities in case of seepage into water course or sewage system. 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). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:** Avoid eye and skin contact. Wash hands and exposed skin before eating, drinking or smoking and after work. Use only in a well ventilated area. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wear suitable protective clothing, gloves and eye/face protection. Do not consume or store food in the working area.
- **Storage:** Keep containers tightly closed. Store in a well ventilated, cool, dry area.  
Storage temperature should be higher than +5°C
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### 8 Exposure controls/personal protection

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

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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 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.

• Penetration time of glove material

The exact breakthrough 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

• <b>General Information</b>	<b>Form:</b>	Fluid
	<b>Colour:</b>	light yellow
	<b>Odour:</b>	Odourless
• <b>Change in condition</b>	<b>Melting point/Melting range:</b>	Undetermined.
	<b>Boiling point/Boiling range:</b>	>100°C
• <b>Flash point:</b>	Not applicable.	
• <b>Self-igniting:</b>	Product is not selfigniting.	
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.	
• <b>Vapour pressure at 20°C:</b>	23 hPa	
• <b>Density at 20°C:</b>	1,020 g/cm <sup>3</sup>	
• <b>Solubility in / Miscibility with water:</b>	Fully miscible.	
• <b>pH-value at 20°C:</b>	2,82	

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**10 Stability and reactivity**

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: Stable at environment temperature.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Irritant gases/vapours  
Carbon monoxide and carbon dioxide

**11 Toxicological information**

• Acute toxicity:

• LD/LC50 values relevant for classification:		
<b>P-PHENYLENEDIAMINE DERIVATIVE</b>		
Dermal	LD50	>2000 mg/kg (rat)

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritant effect.
  - Sensitization: No sensitizing effects known.

**12 Ecological information**

**Ecotoxicity (INGREDIENTS INFORMATION)**

**P-PHENYLENEDIAMINE DERIVATIVE**

**LC50 (Daphnia)** = 96h: 0.75 mg/l (daphnia magna (Großer Wasserfloh))  
= 96h: 0.5-1.0 mg/l (Pimephales promelas)

- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Harmful to fish

**13 Disposal considerations**

**EWC waste disposal No. 09 01 01 Water-based developer and activator solutions**

- Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of according to local and national regulations.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

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### 14 Transport information

UN N°: -

ADR/RID, IMDG, ICAO/IATA: -

**Special precautions for user** Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

### 15 Regulatory information

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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 phrases**

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R2 Risk of explosion by shock, friction, fire or other sources of ignition.

R21/22 Harmful in contact with skin and if swallowed.

R25 Toxic if swallowed.

R36/38 Irritating to eyes and skin.

R40 Limited evidence of a carcinogenic effect.

R43 May cause sensitisation by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50 Very toxic to aquatic organisms.

· **Department issuing MSDS:** Productmanagement department

· **Contact:** Tel.: + 49 4152 1392 844